

PROPOSED EXTERIOR IMPROVEMENTS

ABR SUBMITTA



JOB NUMBER
TBD

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MILESTONES / SUBMITTALS

DESCRIPTION DATE

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No. DESCRIPTION D.

4/29/20

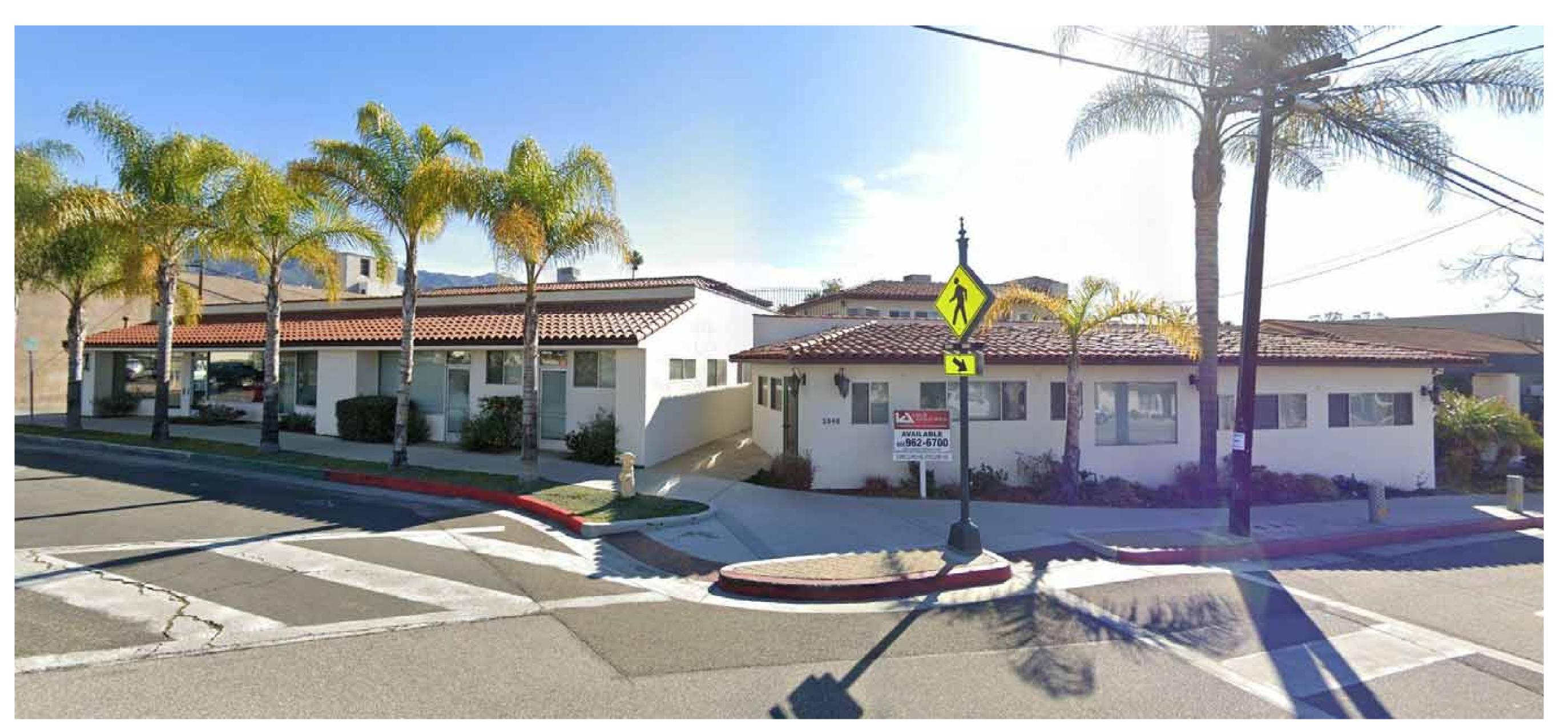
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STREET VIEW LOOKING SOUTH EAST



STREET VIEW LOOKING EAST

2016 CALIFORNIA GREEN BUILDING STANDARDS CODE NONRESIDENTIAL MANDATORY MEASURES, SHEET 1 (INCLUDING SUPPLEMENT-BLUE EFFECTIVE JULY 1, 2018)

INSPECTOR SIGNOFF		ľ
	CHAPTER 3	
	GREEN BUILDING SECTION 301 GENERAL	
	301.1 SCOPE. Buildings shall be designed to include the green building measures specified as mandatory in the application checklists contained in this code. Voluntary green building measures are also included in the application checklists and may be included in the design and construction of structures covered by this code, but are not required unless adopted by a city, county, or city and county as specified in Section 101.7.	
	301.3 NONRESIDENTIAL ADDITIONS AND ALTERATIONS. [BSC] The provisions of individual sections of Chapter 5 apply to newly constructed buildings, building additions of 1,000 square feet or greater, and/or building alterations with a permit valuation of \$200,000 or above (for occupancies within the authority of California Building Standards Commission). Code sections relevant to additions and alterations shall only apply to the portions of the building being added or altered within the scope of the permitted work.	
	A code section will be designated by a banner to indicate where the code section only applies to newly constructed building [N] or to additions and alterations [A]. When the code section applies to both, no banner will be used.	
	301.3.1 Nonresidential additions and alterations that cause updates to plumbing fixtures only:	l
	Note: On and after January 1, 2014, certain commercial real property, as defined in Civil Code Section 1101.3, shall have its noncompliant plumbing fixtures replaced with appropriate water-conserving plumbing fixtures under specific circumstances. See Civil Code Section 1101.1 <i>et seq.</i> for definitions, types of commercial real property affected, effective dates, circumstances necessitating replacement of noncompliant plumbing fixtures, and duties and responsibilities for ensuring compliance.	
	301.3.2 Waste Diversion. The requirements of Section 5.408 shall be required for additions and alterations whenever a permit is required for work.	
	301.4 PUBLIC SCHOOLS AND COMMUNITY COLLEGES. (see GBSC) 301.5 HEALTH FACILITIES. (see GBSC)	l
	SECTION 302 MIXED OCCUPANCY BUILDINGS	l
	302.1 MIXED OCCUPANCY BUILDINGS. In mixed occupancy buildings, each portion of a building shall comply with the specific green building measures applicable to each specific occupancy.	l
	SECTION 303 PHASED PROJECTS	l
	303.1 Phased projects. For shell buildings and others constructed for future tenant improvements, only those code measures relevant to the building components and systems considered to be new construction (or newly constructed) shall apply.	l
	303.1.1 Tenant improvements. The provisions of this code shall apply only to the initial tenant or occupant improvements to a project. Subsequent tenant improvements shall comply with the scoping provisions in Section 301.3 non-residential additions and alterations.	
	ABBREVIATION DEFINITIONS: HCD Department of Housing and Community Development	l
	BSC California Building Standards Commission DSA-SS Division of the State Architect, Structural Safety	l
	OSHPD Office of Statewide Health Planning and Development LR Low Rise HR High Rise	l
	AA Additions and Alterations N New	l
	CHAPTER 5 NONRESIDENTIAL MANDATORY MEASURES	
	DIVISION 5.1 PLANNING AND DESIGN	l
	SECTION 5.101 GENERAL 5.101.1 Scope The provisions of this chapter outline planning, design and development methods that include environmentally responsible site selection, building design, building siting and development to protect, restore and enhance the	
	environmental quality of the site and respect the integrity of adjacent properties. SECTION 5.102 DEFINITIONS 5.102.1 DEFINITIONS	
	The following terms are defined in Chapter 2 (and are included here for reference) CUTOFF LUMINAIRES. Luminaires whose light distribution is such that the candela per 1000 lamp lumens does not	l
	numerically exceed 25 (2.5 percent) at an angle of 90 degrees above nadir, and 100 (10 percent) at a vertical angle of 80 degrees above nadir. This applies to all lateral angles around the luminaire.	l
	LOW-EMITTING AND FUEL EFFICIENT VEHICLES. Eligible vehicles are limited to the following:	l
	 Zero emission vehicle (ZEV), including neighborhood electric vehicles (NEV), partial zero emission vehicle (PZEV), advanced technology PZEV (AT ZEV) or CNG fueled (original equipment manufacturer only) regulated under Health and Safety Code section 43800 and CCR, Title 13, Sections 1961 and 1962. High-efficiency vehicles, regulated by U.S. EPA, bearing High-Occupancy Vehicle (HOV) car pool lane stickers issued by the Department of Motor Vehicles. 	
	NEIGHBORHOOD ELECTRIC VEHICLE (NEV). A motor vehicle that meets the definition of "low-speed vehicle" either in Section 385.5 of the Vehicle Code or in 49CFR571.500 (as it existed on July 1, 2000), and is certified to zero-emission vehicle standards.	
	TENANT-OCCUPANTS. Building occupants who inhabit a building during its normal hours of operation as permanent occupants, such as employees, as distinguished from customers and other transient visitors.	l
	VANPOOL VEHICLE. Eligible vehicles are limited to any motor vehicle, other than a motortruck or truck tractor, designed for carrying more than 10 but not more than 15 persons including the driver, which is maintained and used primarily for the nonprofit work-related transportation of adults for the purpose of ridesharing.	
	Note: Source: Vehicle Code, Division 1, Section 668 ZEV. Any vehicle certified to zero-emission standards.	l
	SECTION 5.106 SITE DEVELOPMENT 5.106.1 STORM WATER POLLUTION PREVENTION. Newly constructed projects and additions which disturb less than one acre of land shall prevent the pollution of storm water runoff from the construction activities through one or more of the following measures:	
6	5.106.1 Stormwater pollution prevention for projects that disturb less than one acre of land. Newly constructed projects and additions which disturb less than one acre of land and are not part of a larger common plan of development or sale shall prevent the pollution of stormwater runoff from the construction activities through one or more of the following measures:	
	5.106.1.1 Local ordinance. Comply with a lawfully enacted stormwater management and/or erosion control ordinance.	l
	5.106.1.2 Best management practices (BMP's). Prevent the loss of soil through wind or water erosion by implementing an effective combination of erosion and sediment control and good housekeeping BMP's.	
	 Soil loss BMP's that should be considered for implementation as appropriate for each project include, but are not limited to, the following: Scheduling construction activity during dry weather, when possible. Preservation of natural features, vegetation, soil, and buffers around surface waters. 	
	c. Drainage swales or lined ditches to control stormwater flow. d. Mulching or hydroseeding to stabilize disturbed soils. e. Erosion control to protect slopes. f. Protection of storm drain inlets (gravel bags or catch basin inserts). g. Perimeter sediment control (perimeter silt fence, fiber rolls).	
	h. Sediment trap or sediment basin to retain sediment on site. i. Stabilized construction exits. j. Wind erosion control.	
	k. Other soil loss BMP's acceptable to the enforcing agency. 2. Good housekeeping BMP's to manage construction equipment, materials, non-stormwater discharges, and wastes that should be considered for implementation as appropriate for each project include, but are	
	not limited to, the following: a. Dewatering activities. b. Material handling and waste management.	
	c. Building materials stockpile management. d. Management of washout areas (concrete, paints, stucco, etc.). e. Control of vehicle/equipment fueling to contractor's staging area.	

f. Vehicle and equipment cleaning performed off site.

h. Other housekeeping BMP's acceptable to the enforcing agency.

g. Spill prevention and control.

or (2) disturb less th Note: Project larger common National Pollu Construction Regional Wat postconstruct	nan one acre of land but are part of a larges that (1) disturb one acre or more of larges that (1) disturb one acre or more of larges plan of development or sale must contain Discharge Elimination System (NPI and Land Disturbance Activities issued the Quality Control Board (for projects in	lations for projects that (1) disturb one acre or more of land, ger common plan of development or sale. Id, or (2) disturb less than one acre of land but are part of a laply with the postconstruction requirements detailed in the applicable DES) General Permit for Stormwater Discharges Associated with by the State Water Resources Control Board or the Lahontan the Lake Tahoe Hydrologic Unit). The NPDES permits require the preconstruction runoff (pre-project hydrology) with the lent measures.
hrough nonstructur	al controls, such as Low Impact Develop be addressed using nonstructural practi	-site stormwater use, interception, evapotranspiration, and infiltration or site stormwater use, interception, evapotranspiration, and infiltration or site stormwaters. Stormwaters is required to be captured in structural practices and be approved
constructionstormwa		desources Control Board website at: www.waterboards.ca.gov/ noff management measures should be given during the initial design
Section 103,	cle parking. For buildings within the autl comply with Section 5.106.4.1. For build 5, comply with Section 5.106.4.2.	nority of California Building Standards Commission as specified in ings within the authority of the Division of the State Architect pursua
local ordi 5.106.4.1	nance, whichever is stricter. .1 Short-term bicycle parking. If the no	ith Sections 5.106.4.1.1 and 5.106.4.1.2; or meet the applicable ew project or an addition or alteration is anticipated to generate visit as within 200 feet of the visitors' entrance, readily visible to passers-
for 5 perc Exce	ent of new visitor motorized vehicle part ption: Additions or alterations which add	king spaces being added, with a minimum of one two-bike capacity I nine or less visitor vehicular parking spaces.
provide s bicycle pa	ecure bicycle parking for 5 percent of the arking facility.	e tenant-occupant vehicular parking spaces with a minimum of one
		10 or more tenant-occupant vehicular parking spaces, provide secu ar parking spaces being added, with a minimum of one bicycle park
	.4. For new shell buildings in phased procupant vehicular parking spaces with a	ojects provide secure bicycle parking for 5 percent of the anticipated minimum of one bicycle parking facility.
from the s 1 2	street and shall meet one of the following. Covered, lockable enclosures with period to be because it is consisted in the control of the following street in the control of the control o	manently anchored racks for bicycles; ttly anchored racks; or
Note: Ad	 Lockable, permanently anchored bicyc ditional information on recommended bicycle Advocates. 	cycle accommodations may be obtained from Sacramento
minimum convenie 1 2		manently anchored racks for bicycles; ttly anchored racks; or
In new project		VEHICLES. or more vehicular parking spaces, provide designated parking for a
In new project combination of	ts or additions or alterations that add 10 of low-emitting, fuel-efficient and carpool	VEHICLES. or more vehicular parking spaces, provide designated parking for a
In new project combination of	ts or additions or alterations that add 10	R VEHICLES. or more vehicular parking spaces, provide designated parking for a /van pool vehicles as follows:
In new project combination of	ts or additions or alterations that add 10 of low-emitting, fuel-efficient and carpool of low-emitting	R VEHICLES. or more vehicular parking spaces, provide designated parking for a /van pool vehicles as follows:
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In new project combination of	ts or additions or alterations that add 10 of low-emitting, fuel-efficient and carpool of low-emitting fuel-efficient and carpool of l	EX VEHICLES. or more vehicular parking spaces, provide designated parking for a dyan pool vehicles as follows: ES NUMBER OF REQUIRED SPACES 0 1 3 6
In new project combination of	ts or additions or alterations that add 10 of low-emitting, fuel-efficient and carpool of low-emitting space.	ES NUMBER OF REQUIRED SPACES 0 1 3 6 8
In new project combination of	ts or additions or alterations that add 10 of low-emitting, fuel-efficient and carpool of low-emitting space.	EX VEHICLES. or more vehicular parking spaces, provide designated parking for a dyan pool vehicles as follows: ES NUMBER OF REQUIRED SPACES 0 1 3 6 8 11
TAB TOT	ts or additions or alterations that add 10 of low-emitting, fuel-efficient and carpool of low-emitting space o	EX NUMBER OF REQUIRED SPACES 0 1 3 6 8 11 16
TAB TOT 5.106.5.2.1 P edge of thela CLEAN AIR/N Note: Ve designate	ts or additions or alterations that add 10 of low-emitting, fuel-efficient and carpool of low-emitting space. 3LE 5.106.5.2 - PARKING 0-9 10-25 25-50 51-75 76-100 101-150 151-200 201 AND OVER 3rking stall marking. Paint, in the paint lost word aligns with the end of the stall stall stall was allowed parking spaces.	EVEHICLES. or more vehicular parking spaces, provide designated parking for a divan pool vehicles as follows: BES NUMBER OF REQUIRED SPACES 0 1 3 6 8 11 16 AT LEAST 8% OF TOTAL Tused for stall striping, the following characters such that the lower riping and is visible beneath a parked vehicle: from expired HOV lane programs may be considered eligible for
5.106.5.2.1 P edge of thela CLEAN AIR/Note: Ve designate 5.106.5.3 Ele to facilitate fu accordance w	ts or additions or alterations that add 10 of low-emitting, fuel-efficient and carpool of low-emitting space. 3LE 5.106.5.2 - PARKING 0-9 10-25 25-50 51-75 76-100 101-150 151-200 201 AND OVER 3arking stall marking. Paint, in the paint lest word aligns with the end of the stall start word aligns with the end of the start word word word word word word word word	ES NUMBER OF REQUIRED SPACES 0 1 3 6 8 11 16 AT LEAST 8% OF TOTAL used for stall striping, the following characters such that the lower riping and is visible beneath a parked vehicle: from expired HOV lane programs may be considered eligible for equipment (EVSE). When EVSE(s) is/are installed, it shall be in ifornia Electrical Code and as follows:
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5.106.5.2.1 P edge of thela CLEAN AIR/N Note: Ve designate to facilitate fu accordance w 5.106.5.3 Table 5.1 accordan not limite	ts or additions or alterations that add 10 of low-emitting, fuel-efficient and carpool of low-emitting space o	VEHICLES. or more vehicular parking spaces, provide designated parking for a fivan pool vehicles as follows: See NUMBER OF REQUIRED SPACES 0 1 3 6 8 11 16 AT LEAST 8% OF TOTAL Tused for stall striping, the following characters such that the lower riping and is visible beneath a parked vehicle: from expired HOV lane programs may be considered eligible for suction shall comply with Section 5.106.5.3.1 or Section 5.106.5.3.2 equipment (EVSE). When EVSE(s) is/are installed, it shall be in ifornia Electrical Code and as follows: 1s. [N] When only a single charging space is required per talled at the time of construction and shall be installed in onstruction plans and specifications shall include, but are lating a 208/240-volt dedicated branch circuit. Its is a 208/240-volt dedicated branch circuit. It is a 208/240-volt dedicated branch circuit.
5.106.5.3 Ele to facilitate fu accordance w 5.106.5.3 the California to 1.00	ts or additions or alterations that add 10 of low-emitting, fuel-efficient and carpool of low-emitting states of parking space of low-emitting stall marking. Paint, in the paint of low-emitting stall stall states of low-emitting stall marking. Paint, in the paint of low-emitting stall marking. Paint, in the paint of low-emitting stall	VEHICLES. or more vehicular parking spaces, provide designated parking for a fivan pool vehicles as follows: See NUMBER OF REQUIRED SPACES 0 1 3 6 8 11 16 AT LEAST 8% OF TOTAL Tused for stall striping, the following characters such that the lower riping and is visible beneath a parked vehicle: from expired HOV lane programs may be considered eligible for suction shall comply with Section 5.106.5.3.1 or Section 5.106.5.3.2 equipment (EVSE). When EVSE(s) is/are installed, it shall be in ifornia Electrical Code and as follows: 1s. [N] When only a single charging space is required per talled at the time of construction and shall be installed in onstruction plans and specifications shall include, but are lating a 208/240-volt dedicated branch circuit. Its is a 208/240-volt dedicated branch circuit. It is a 208/240-volt dedicated branch circuit.
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5.106.5.2.1 P edge of thela CLEAN AIR/N Note: Ve designate to facilitate fu accordance w 5.106.5.3 Ele to facilitate fu accordance w 5.106.5.3 the Califor 1 2 3 4 5 5.106.5.3 5.106.5.3 5.106.5.3 5.106.5.3 5.106.5.3	ts or additions or alterations that add 10 of low-emitting, fuel-efficient and carpool low-emitting, fuel-efficient and carpool flow-emitting, fuel-efficient and carpool flow-emitting, fuel-efficient and carpool flow-emitting, fuel-efficient and carpool flow-emitting, fuel-efficient and carpool flow-emitting	EXEMICLES. or more vehicular parking spaces, provide designated parking for a fivan pool vehicles as follows: Section

ACTUAL PARKING SPACES

26-50

51-75

76-100

101-150

151-200

permanently and visibly marked as "EV CAPABLE."

TABLE 5.106.5.3.3

1. Calculation for spaces shall be rounded up to the nearest whole number.

protective device space(s) for future EV charging as "EV CAPABLE". The raceway termination location shall be

5.106.5.3.4 [N] Identification. The service panel or subpanel(s) circuit directory shall identify the reserved overcurrent

NUMBER OF REQUIRED EV

CHARGING SPACES

6 percent of total¹

Designated parking for clean air vehicles. Notes: 1. The California Department of Transportation	ion adonts and	d publishes the	e California M	anual on Unife	orm Traffic
 The California Department of Transportat Control Devices (California MUTCD) to precontrol devices in California. Zero Emission Policies & Directives number 13-01. 	rovide uniform on Vehicle Sig w.dot.ca.gov/h	standards an ns and Paven q/traffops/poli	d specification nent Markings cy/13-01.pdf.	ns for all officia can be found	al traffic in the New
 See Vehicle Code Section 22511 for EV of EV charging spaces. The Governor's Office of Planning and Regulation of Guidebook which provides helpful information. 	esearch publis	hed a Zero-Er	mission Vehic	le Community	
www.opr.ca.gov/docs/ZEV_Guidebook.pd		governments,	residents and	businesses.	
106.8 Light pollution reduction. [N] [BSC-CG] atdoor lighting systems shall be designed and installed to conduct 1. The minimum requirements in the California Energy C			as defined in (Chapter 10.	
Section 10-114 of the California Administrative Code; 2. Backlight (B) ratings as defined in IES TM-15-11 (show	and wn in Table A-	1 in Chapter 8);	E) 195	
 Uplight and Glare ratings as defined in California Ener 4. Allowable BUG ratings not exceeding those shown in Table 5.106.8 [N], or Comply with a local ordinance la stringent. 				100 to 100	Now with the
Exceptions: [N] 1. Luminaires that qualify as exceptions in S 2. Emergency lighting.	Section 140.7 o	of the Californi	a Energy Coo	le.	
Building facade meeting the requirements Custom lighting features as allowed by th					
Alternate materials, designs and methods of construction Notes:	n.				
 [N] See also California Building Code, Chapter parking facilities and walkways. Refer to Chapter 8 (Compliance Forms, Worksh 		Minimal Available and Available and			
Energy Code Tables 130.2-A and 130.2-B. 5.106.8.1 Light pollution reduction. [N] [DSA-SS]					
Outdoor lighting systems shall be designed and installed 1. The minimum requirements in the California En-				ed in Chapter	10
of the California Administrative Code; and 2. Backlight, Uplight and Glare (BUG) ratings as d 3. Allowable BUG ratings not exceeding those sho				ocal ordinance	e lawfully
enacted pursuant to Section 101.7, whichever is Exceptions: [N]	s more stringe	nt.	•		**************************************
 Luminaires that qualify as exceptions in S Emergency lighting. Building facade meeting the requirements 	s in Table 140.	7-B of the Cal	ifornia Energy	Code, Part 6	
Custom lighting features as allowed by th Alternate materials, designs and methods Note: [N] See also California Building Code, Chap	e local enforci of construction	ng agency, as on.	permitted by	Section 101.8	B
parking facilities and walkways.	•	11 1200.0 101 0	ollege campu	s lighting requ	mements to
MAXIMUM ALLOWABLE BACKLIGH		42	11		
ALLOWABLE RATING	LIGHTING ZONE LZ0	LIGHTING ZONE LZ1	LIGHTING ZONE LZ2	LIGHTING ZONE LZ3	LIGHTING ZONE LZ4
Maximum Allowable Backlight Rating ³ (B) Luminaire greater than 2 mounting heights (MH) from property line	N/A	No Limit	No Limit	No Limit	No Limit
Luminaire back hemisphere is 1 – 2 MH from property line Luminaire back hemisphere is 0.5 – 1 MH from property line	N/A N/A	B2 B1	B3 B2	B4 B3	B4 B3
Luminaire back hemisphere is less than 0.5 MH from property line Maximum Allowable Uplight Rating (U)	N/A	B0	В0	B1	B2
For area lighting ⁴ For all other outdoor lighting, including decorative luminaires	N/A N/A	U0 U1	U0 U2	U0 U3	U0 U4
Maximum Allowable Glare Rating ^s (G) Luminaire greater than 2 MH from property line	N/A	GI	G2	G3	G4
Luminaire front hemisphere is 1 – 2 MH from property line Luminaire front hemisphere is 0.5 – 1 MH from property line	N/A N/A	G0 G0	G1 G0	G1 G1	G2 G1
Luminaire front hemisphere is less than 0.5 MH from property line	N/A	G0	G0	G0	GI
 5 feet beyond the actual property line for purpose of depublic roadways and public transit corridors, the proper or public transit corridor for the purpose of determining 3. If the nearest property line is less than or equal to two distribution, the applicable reduced Backlight rating shadows. 	erty line may b g compliance v mounting heighall be met.	e considered with this section ghts from the	to be the cent on. back hemisph	erline of the p ere of the lum lese reduced r	ublic roadw inaire
 General lighting luminaires in areas such as outdoor p Decorative luminaires located in these areas shall me If the nearest property line is less than or equal to two distribution, the applicable reduced Glare rating shall 	et U-value limi mounting heighe met.	ghts from the	front hemisph	ere of the lum	inaire
General lighting luminaires in areas such as outdoor property luminaires located in these areas shall me If the nearest property line is less than or equal to two distribution, the applicable reduced Glare rating shall light the state of the s	et U-value limi o mounting heig be met. ate how site gra	ghts from the	front hemisph inage system	ere of the lum will manage a	inaire
4. General lighting luminaires in areas such as outdoor processed to be proce	et U-value limi o mounting heig be met. ate how site gra	ghts from the	front hemisph inage system	ere of the lum will manage a	inaire
4. General lighting luminaires in areas such as outdoor processed property line is less than or equal to two distribution, the applicable reduced Glare rating shall independent of the second processed property line is less than or equal to two distribution, the applicable reduced Glare rating shall indicate flows to keep water from entering buildings. Examples of efollowing: 1. Swales. 2. Water collection and disposal systems 3. French drains. 4. Water retention gardens.	et U-value limi mounting heigh be met. ate how site graf f methods to n	ghts from the ading or a dra nanage surfac	front hemisph inage system e water includ	ere of the lum will manage a de, but are not	inaire
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4. General lighting luminaires in areas such as outdoor proceed to be p	et U-value limic mounting heigh mounting heigh be met. ate how site graff methods to not methods to not methods to not methods to not methods. IENCY SA-SSJ. For son will continue.	ghts from the ading or a dra nanage surface as and aid in gh. the purposes to adopt m	front hemisph inage system e water include roundwater re s of mandator andatory bui	will manage a de, but are not echarge. Ty energy efficiency standar	inaire Il surface limited to, ciency ds.
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POTABLE WATER. Water that is drinkable and meets the U.S. Environmental Protection Agency (EPA) Drinking

Environmental Protection Agency (EPA) Drinking Water Standards and the requirements of the Health Authority

RECYCLED WATER. Water which, as a result of treatment of waste, is suitable for a direct beneficial use or a

controlled use that would not otherwise occur [Water Code Section 13050 (n)]. Simply put, recycled water is water

SUBMETER. A meter installed subordinate to a site meter. Usually used to measure water intended for one purpose,

WATER BUDGET. Is the estimated total landscape irrigation water use which shall not exceed the maximum applied

such as landscape irrigation. For the purposes of CALGreen, a dedicated meter may be considered a submeter.

water allowance calculated in accordance with the Department of Water Resources Model Efficient Landscape

POTABLE WATER. [HCD] Water that is satisfactory for drinking, culinary, and domestic puroses, and meets the U.S.

Water Standards. See definition in the California Plumbing Code, Part 5.

Ordinance (MWELO).

treated to remove waste matter attaining a quality that is suitable to use the water again.

5.303.1.1 Buildings in excess of 50,000 square feet. Separate submeters shall be installed as follows: 1. For each individual leased, rented or other tenant space within the building projected to consume more than 100 gal/day (380 L/day), including, but not limited to, spaces used for laundry or cleaners, restaurant or food service, medical or dental office, laboratory, or beauty salon or barber shop. 2. Where separate submeters for individual building tenants are unfeasible, for water supplied to the Makeup water for cooling towers where flow through is greater than 500 gpm (30 L/s). Makeup water for evaporative coolers greater than 6 gpm (0.04 L/s). c. Steam and hot water boilers with energy input more than 500,000 Btu/h (147 kW). 5.303.1.2 Excess consumption. A separate submeter or metering device shall be provided for any tenant within a new building or within an addition that is projected to consume more than 1,000 gal/day. 5.303.3 WATER CONSERVING PLUMBING FIXTURES AND FITTINGS. Plumbing fixtures (water closets and urinals) and fittings (faucets and showerheads) shall comply with the following: 5.303.3.1 Water Closets. The effective flush volume of all water closets shall not exceed 1.28 gallons per flush. Tank-type water closets shall be certified to the performance criteria of the U.S. EPA WaterSense Specification for Tank-Type toilets. Note: The effective flush volume of dual flush toilets is defined as the composite, average flush volume of two reduced flushes and one full flush. 5.303.3.2.1 Wall-mounted urinals. The effective flush volume of wall-mounted urinals shall not exceed 0.125 5.303.3.2.2 Floor-mounted urinals. The effective flush volume of floor-mounted or other urinals shall not 5.303.3.3.1 Single showerhead. Showerheads shall have a maximum flow rate of not more than 1.8 gallons per minute at 80 psi. Showerheads shall be certified to the performance criteria of the U.S. EPA WaterSense Specification for Showerheads. 5.303.3.3.2 Multiple showerheads serving one shower. When a shower is served by more than one showerhead, the combined flow rate of all showerheads and/or other shower outlets controlled by a single valve shall not exceed 1.8 gallons per minute at 80 psi, or the shower shall be designed to allow only one shower outlet to be in operation at a time. Note: A hand-held shower shall be considered a showerhead. 5.303.3.4 Faucets and fountains. 5.303.3.4.1 Nonresidential lavatory faucets. Lavatory faucets shall have a maximum flow rate of not more than 5.303.3.4.2 Kitchen faucets. Kitchen faucets shall have a maximum flow rate of not more than 1.8 gallons per minute at 60 psi. Kitchen faucets may temporarily increase the flow above the maximum rate, but not to exceed 2.2 gallons per minute at 60 psi, and must default to a maximum flow rate of 1.8 gallons per minute at 60 psi. 5.303.3.4.3 Wash fountains. Wash fountains shall have a maximum flow rate of not more than 1.8 gallons per minute/20 [rim space (inches) at 60 psi]. 5.303.3.4.4 Metering faucets. Metering faucets shall not deliver more than 0.20 gallons per cycle. 5.303.3.4.5 Metering faucets for wash fountains. Metering faucets for wash fountains shall have a maximum flow rate of not more than 0.20 gallons per cycle/ 20 [rim space (inches) at 60 psi]. Note: Where complying faucets are unavailable, aerators or other means may be used to achieve reduction. 5.303.4 Commercial kitchen equipment. 5.303.4.1 Food waste disposers. Disposers shall either modulate the use of water to no more than 1 gpm when the disposer is not in use (not actively grinding food waste/noload) or shall automatically shut off after no more than 10 minutes of inactivity. Disposers shall use no more than 8 gpm of water. Note: This code section does not affect local jurisdiction authority to prohibit or require disposer installation. **5.303.5** Areas of addition or alteration. For those occupancies within the authority of the California Building Standards Commission as specified in Section 103, the provisions of Sections 5.303.3 and 5.303.4 shall apply to new fixtures in additions or areas of alteration to the building. 5.303.6 Standards for plumbing fixtures and fittings. Plumbing fixtures and fittings shall be installed in accordance with the California Plumbing Code, and shall meet the applicable standards referenced in Table 1701.1 of the California Plumbing Code and in Chapter 6 of this code. SECTION 5.304 OUTDOOR WATER USE 5.304.1 Scope. The provisions of Section 5.304, Outdoor Water Use reference the mandatory Model Water Efficiency Landscape Ordinance (MWELO) contained within Chapter 2.7, Division 2, Title 23, California Code of Regulations. 5.304.2 Outdoor water use in landscape areas equal to or greater than 500 square feet. When water is used for outdoor irrigation for new construction projects with an aggregate landscape area equal to or greater than 500 square feet requiring a building or landscape permit, plan check or design review, one of the following 1. A local water efficient landscape ordinance that is, based on evidence in the record, at least as effective in conserving water as the updated model ordinance adopted by the Department of Water Resources (DWR) 2. The California Department of Water Resources Model Water Efficient Landscape Ordinance (MWELO) commencing with Section 490 of Chapter 2.7, Division 2, Title 23, California Code of Regulations. 5.304.3 Outdoor water use in rehabilitated landscape projects equal to or greater than 2,500 square feet. Rehabilitated landscape projects with an aggregate landscape area equal to or greater than 2,500 square feet requiring a building or landscape permit, plan check, or design review shall comply with Section 5.304.2, Item 1 or 2. 5.304.4 Outdoor water use in landscape areas of 2,500 square feet or less. Any project with an aggregate landscape area of 2,500 square feet or less may comply with the performance requirements of MWELO or conform to the prescriptive compliance measures contained in MWELO's Appendix D. 5.304.5 Graywater or rainwater use in landscape areas. For projects using treated or untreated graywater or rainwater captured on site, any lot or parcel within the project that has less than 2,500 square feet of landscape and meets the lot or parcel's landscape water requirement (Estimated Total Water Use) entirely with treated or untreated graywater or through stored rainwater captured on site is subject only to Appendix D Section (5). 1. DWR's Model Water Efficient Landscape Ordinance, definitions and supporting documents are available at the following link: http://water.ca.gov/wateruseefficiency/landscapeordinance/ A water budget calculator is available at the following link: http://water.ca.gov/wateruseefficiency/landscapeordinance/ 3. The MWELO prescriptive compliance measure Appendix D may be found at the following link: http://water.ca.gov/wateruseefficiency/landscapeordinance/. In addition, a copy of MWELO Appendix D may be found in Chapter 8 of this code. 5.304.6 Outdoor potable water use in landscape areas [DSA-SS]. For public schools and community colleges, landscape projects as described in Sections 5.304.6.1 and 5.304.6.2 shall comply with the California Department of Water Resources Model Water Efficient Landscape Ordinance (MWELO) commencing with Section 490 of Chapter 2.7, Division 2, Title 23, California Code of Regulations, except that the evapotranspiration adjustment factor (ETAF)

shall be 0.65 with an additional water allowance for special landscape areas (SLA) of 0.35.

prescriptive measures contained in Appendix D of the MWELO.

area equal to or greater than 500 square feet

SECTION 5.305 WATER REUSE SYSTEMS

5.305.1.1, 5.305.1.2, and the California Plumbing Code.

area equal to or greater than 1,200 square feet.

Exception: Any project with an aggregate landscape area of 2,500 square feet or less may comply with the

5.305.1 Recycled water supply systems. Recycled water supply systems shall be installed in accordance with Sections

site boundary, it shall be considered that reclaimed (recycled) water is available from a municipal source.

authority having jurisdiction in consultation with the recycled water purveyor.

authority having jurisdiction in consultation with the recycled water purveyor.

supplied with recycled water at the time of final inspection.

accommodate new services or unable to provide uninterruptable service.

5.305.1.1 Outdoor recycled water supply systems. All newly constructed nonresidential developments, where

disinfected tertiary recycled water is available from a municipal source to a construction site, shall be provided with both

a potable water supply system and a recycled water supply system. The recycled water supply system shall allow the use of reclaimed (recycled) water for aboveground and subsurface irrigation to all landscape irrigation systems. For the purposes of Section 5.305.1.1, when a recycled water supply pipe is located within 300 feet from a construction

1. Service areas in which the only reclaimed (recycled) water is used for potable purposes, or in which net

nonpotable deliveries are anticipated to remain level or decrease as a result of the potable reuse project.

2. Where access to disinfected tertiary recycled water is not feasible and/or cost-efficient, as determined by the

3. A potable water supply system is not required for landscape irrigation if the landscape irrigation system is

5.305.1.2 Technical requirements for outdoor recycled water supply systems. Recycled water supply systems for

outdoor applications shall meet the requirements of this code, and the California Code of Regulations, Title 17,

4. Potable water may be used with the recycled water supply system on a temporary basis, as allowed by the

Division 1, Chapter 5, Subchapter 1; Title 22, Division 4, Chapter 3; and Title 23, Division 2, Chapter 2.7, as applicable.

Note: A city, county, or city and county, in consultation with the recycled water purveyor, may further reduce

the area for the mandate to install recycled water supply systems if the recycled water purveyor is unable to

5.304.6.1 Newly constructed landscapes. [DSA-SS] New construction projects with an aggregate landscape

5.304.6.2 Rehabilitated landscapes. [DSA-SS] Rehabilitated landscape projects with an aggregate landscape

SECTION 5.303 INDOOR WATER USE

5.303.1 METERS. Separate submeters or metering devices shall be installed for the uses described in Sections

PROPOSED EXTERIOR **IMPROVEMENTS**

> **37-45 Calle Laureles Street** 2946-48 De La Vina Street

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CGBC (NR) - Sheet

(SCALE NOTED IS FOR 30x42 FULL-SIZE DRAWINGS)



DISCLAIMER: THIS DOCUMENT IS PROVIDED AND INTENDED TO BE USED AS A MEANS TO INDICATE AREAS OF COMPLIANCE WITH THE 2016 CALIFORNIA GREEN BUILDING STANDARDS (CALGREEN) CODE. DUE TO THE VARIABLES BETWEEN BUILDING DEPARTMENT JURISDICTIONS, THIS CHECKLIST IS TO BE USED AS A MEANS TO INDICATE AREAS OF COMPLIANCE WITH THE 2016 CALIFORNIA GREEN BUILDING STANDARDS (CALGREEN) CODE. DUE TO THE VARIABLES BETWEEN BUILDING DEPARTMENT JURISDICTIONS, THIS CHECKLIST IS TO BE USED ON AN INDIVIDUAL PROJECT BASIS AND MAY BE MODIFIED BY THE END USER TO MEET THOSE INDIVIDUAL PROJECT BASIS AND MAY BE MODIFIED BY THE END USER TO MEET THOSE INDIVIDUAL PROJECT BASIS AND MAY BE MODIFIED BY THE END USER TO MEET THOSE INDIVIDUAL PROJECT BASIS AND MAY BE MODIFIED BY THE END USER TO MEET THOSE INDIVIDUAL PROJECT BASIS AND MAY BE MODIFIED BY THE END USER TO MEET THOSE INDIVIDUAL PROJECT BASIS AND MAY BE MODIFIED BY THE END USER TO MEET THOSE INDIVIDUAL PROJECT BASIS AND MAY BE MODIFIED BY THE END USER TO MEET THOSE INDIVIDUAL PROJECT BASIS AND MAY BE MODIFIED BY THE END USER TO MEET THOSE INDIVIDUAL PROJECT BASIS AND MAY BE MODIFIED BY THE END USER TO MEET THOSE INDIVIDUAL PROJECT BASIS AND MAY BE MODIFIED BY THE END USER TO MEET THOSE INDIVIDUAL PROJECT BASIS AND MAY BE MODIFIED BY THE END USER TO MEET THOSE INDIVIDUAL PROJECT BY THE END USER TO MEET THOSE INDIVIDUAL PROJECT BY THE END USER TO MEET THOSE INDIVIDUAL PROJECT BY THE END USER TO MEET THOSE INDIVIDUAL PROJECT BY THE END USER TO MEET THOSE INDIVIDUAL PROJECT BY THE END USER TO MEET THOSE INDIVIDUAL PROJECT BY THE END USER TO MEET THOSE INDIVIDUAL PROJECT BY THE END USER TO MEET THOSE INDIVIDUAL PROJECT BY THE END USER TO MEET THOSE INDIVIDUAL PROJECT BY THE END USER TO MEET THOSE INDIVIDUAL PROJECT BY THE END USER TO MEET THOSE INDIVIDUAL PROJECT BY THE END USER TO MEET THOSE INDIVIDUAL PROJECT BY THE END USER TO MEET THOSE INDIVIDUAL PROJECT BY THE END USER TO MEET THOSE INDIVIDUAL PROJECT BY THE END USER TO MEET THOSE INDIVIDUAL PROJECT BY THE END USER TO MEET THOSE INDIVIDUAL P

2016 CALIFORNIA GREEN BUILDING STANDARDS CODE NONRESIDENTIAL MANDATORY MEASURES, SHEET 2 (INCLUDING SUPPLEMENT-BLUE EFFECTIVE JULY 1, 2018)

SIGNOFF SIGNOFF SIGNOFF SIGNOFF DIVISION 5.4 MATERIAL CONSERVATION AND RESOURCE **DIVISION 5.5 ENVIRONMENTAL QUALITY EFFICIENCY** SECTION 5.501 GENERAL 5.501.1 SCOPE. The provisions of this chapter shall outline means of reducing the quantity of air contaminants that **SECTION 5.401 GENERAL** 5.410.2.4 Functional performance testing. [N] SECTION 5.410 BUILDING MAINTENANCE AND OPERATIONS are odorous, irritating, and/or harmful to the comfort and well-being of a building's installers, occupants and neighbors. Functional performance tests shall demonstrate the correct installation and operation of each 5.401.1 SCOPE. The provisions of this chapter shall outline means of achieving material conservation and resource 5.410.1 RECYCLING BY OCCUPANTS. Provide readily accessible areas that serve the entire building and are efficiency through protection of buildings from exterior moisture, construction waste diversion, employment of component, system and system- tosystem interface in accordance with the approved plans and identified for the depositing, storage and collection of non-hazardous materials for recycling, including (at a minimum) SECTION 5.502 DEFINITIONS techniques to reduce pollution through recycling of materials, and building commissioning or testing and adjusting. specifications. Functional performance testing reports shall contain information addressing each of **5.502.1 DEFINITIONS.** The following terms are defined in Chapter 2 (and are included here for reference) paper, corrugated cardboard, glass, plastics, organic waste, and metals or meet a lawfully enacted local recycling the building components tested, the testing methods utilized, and include any readings and ordinance, if more restrictive. SECTION 5.402 DEFINITIONS ARTERIAL HIGHWAY. A general term denoting a highway primarily for through traffic usually on a continuous route. **5.402.1 DEFINITIONS.** The following terms are defined in Chapter 2 (and are included here for reference) **Exception**: Rural jurisdictions that meet and apply for the exemption in Public Resources A-WEIGHTED SOUND LEVEL (dBA). The sound pressure level in decibels as measured on a sound level meter Code 42649.82 (a)(2)(A) et seq. shall also be exempt from the organic waste portion of this section. 5.410.2.5 Documentation and training. [N] ADJUST. To regulate fluid flow rate and air patterns at the terminal equipment, such as to reduce fan speed or adjust using the internationally standardized A-weighting filter or as computed from sound spectral data to which A-weighting A systems manual and systems operations training are required, including Occupational Safety and adjustments have been made. 5.410.1.1 Additions. All additions conducted within a 12-month period under single or multiple permits, Health Act (OSHA) requirements in California Code of Regulations (CCR), resulting in an increase of 30% or more in floor area, shall provide recycling areas on site. Title 8, Section 5142, and other related regulations. BALANCE. To proportion flows within the distribution system, including sub-mains, branches and terminals, BTU/HOUR. British thermal units per hour, also referred to as Btu. The amount of heat required to raise one pound of water one degree Fahrenheit per hour, a common measure of heat transfer rate. A ton of refrigeration is 12,000 Btu, according to design quantities. **Exception**: Additions within a tenant space resulting in less than a 30% increase in the tenant space floor 5.410.2.5.1 Systems manual. [N] the amount of heat required to melt a ton (2,000 pounds) of ice at 320 Fahrenheit. Documentation of the operational aspects of the building shall be completed within the systems BUILDING COMMISSIONING. A systematic quality assurance process that spans the entire design and construction manual and delivered to the building owner or representative. 5.410.1.2 Sample ordinance. Space allocation for recycling areas shall comply with Chapter 18, Part 3, COMMUNITY NOISE EQUIVALENT LEVEL (CNEL). A metric similar to the day-night average sound level (Ldn), process, including verifying and documenting that building systems and components are planned, designed, installed, The systems manual shall include the following: tested, operated and maintained to meet the owner's project requirements. Division 30 of the Public Resources Code. Chapter 18 is known as the California Solid Waste Reuse and except that a 5 decibel adjustment is added to the equivalent continuous sound exposure level for evening hours (7pm to 10pm) in addition to the 10 dB nighttime adjustment used in the Ldn. Recycling Access Act of 1991 (Act). 1. Site information, including facility description, history and current requirements. ORGANIC WASTE. Food waste, green waste, landscape and pruning wste, nonhazardous wood waste, and food Note: A sample ordinance for use by local agencies may be found in Appendix A of the document at the COMPOSITE WOOD PRODUCTS. Composite wood products include hardwood plywood, particleboard and medium soiled paper waste that is mixed in with food waste. Site contact information. density fiberboard. "Composite wood products" does not include hardboard, structural plywood, structural panels, CalRecycle's web site. 3. Basic operations and maintenance, including general site operating procedures, basic structural composite lumber, oriented strand board, glued laminated timber, timber, prefabricated wood I-joists or TEST. A procedure to determine quantitative performance of a system or equipment troubleshooting, recommended maintenance requirements, site events log. finger-jointed lumber, all as specified in California Code of Regulations (CCR), Title 17, Section 93120.1(a). Major systems. SECTION 5.407 WATER RESISTANCE AND MOISTURE MANAGEMENT 5.410.2 Commissioning. [N] New buildings 10,000 square feet and over. Site equipment inventory and maintenance notes. Note: See CCR, Title 17, Section 93120.1. **5.407.1 WEATHER PROTECTION.** Provide a weather-resistant exterior wall and foundation envelope as required by For new buildings 10,000 square feet and over, building commissioning shall be included in the design 6. A copy of verifications required by the enforcing agency or this code. California Building Code Section 1403.2 (Weather Protection) and California Energy Code Section 150, (Mandatory and construction processes of the building project to verify that the building systems and components 7. Other resources and documentation, if applicable. DAY-NIGHT AVERAGE SOUND LEVEL (Ldn). The A-weighted equivalent continuous sound exposure level for a Features and Devices), manufacturer's installation instructions or local ordinance, whichever is more stringent. meet the owner's or owner representative's project requirements. Commissioning shall be performed in 24-hour period with a 10 dB adjustment added to sound levels occurring during nighttime hours (10p.m. to 7 a.m.). dance with this section by trained personnel with experience on projects of comparable size and 5.410.2.5.2 Systems operations training. [N] 5.407.2 MOISTURE CONTROL. Employ moisture control measures by the following methods. complexity. For I-occupancies that are not regulated by OSHPD or for I-occupancies and L-occupancies DECIBEL (db). A measure on a logarithmic scale of the magnitude of a particular quantity (such as sound pressure, A program for training of the appropriate maintenance staff for each equipment type that are not regulated by the California Energy Code Section 100.0 Scope, all requirements in Sections sound power, sound intensity) with respect to a reference quantity. and/or system shall be developed and documented in the commissioning report and **5.407.2.1 Sprinklers.** Design and maintain landscape irrigation systems to prevent spray on structures. 5.410.2 through 5.410.2.6 shall apply. shall include the following: ELECTRIC VEHICLE (EV). An automotive-type vehicle for on-road use, such as passenger automobiles, buses, 5.407.2.2 Entries and openings. Design exterior entries and/or openings subject to foot traffic or wind-driven trucks, vans, neighborhood electric vehicles, electric motorcycles, and the like, primarily powered by an electric motor Note: For energy-related systems under the scope (Section 100) of the California Energy Code, rain to prevent water intrusion into buildings as follows: System/equipment overview including heating, ventilation, air conditioning (HVAC) systems and controls, indoor lighting that draws current from a rechargeable storage battery, fuel cell, photovoltaic array, or other source of electric current. (what it is, what it does and with what other systems and/or equipment it interfaces). Plug-in hybrid electric vehicles (PHEV) are considered electric vehicles. For purposes of the California Electrical Code, 5.407.2.2.1 Exterior door protection. Primary exterior entries shall be covered to prevent water systems and controls, as well as water heating systems and controls, refer to California Energy Review and demonstration of servicing/preventive maintenance. off-road, self-propoelled electric vehicles, such as industrial trucks, hoists, lifts, transports, golf carts, airline ground intrusion by using nonabsorbent floor and wall finishes within at least 2 feet around and perpendicular to Code Section 120.8 for commissioning requirements. 3. Review of the information in the systems manual. support equipment, tractors, boats, and the like, are not included. such openings plus at least one of the following: 4. Review of the record drawings on the system/equipment. Commissioning requirements shall include: ELECTRIC VEHICLE CHARGING STATION(S) (EVCSj). One or more spaces intended for charging electric vehicles. An installed awning at least 4 feet in depth. Owner's or owner representative's project requirements. 5.410.2.6 Commissioning report. [N] The door is protected by a roof overhang at least 4 feet in depth. Basis of design. ELECTRIC VEHICLE SUPPLY EQUIPMENT (EVSE). The conductors, including the ungrounded, grounded, and A report of commissioning process activities undertaken through the design and construction The door is recessed at least 4 feet. 3. Commissioning measures shown in the construction documents. equipment grounding conductors and the electric vehicle connectors, attachment plugs, and all other fittings, devices, 4. Other methods which provide equivalent protection. phases of the building project shall be completed and provided to the owner or representative. power outlets, or apparatus installed specifically for the purpose of transferring energy between the premises wiring 4. Commissioning plan. Functional performance testing. and the electric vehicle. **5.407.2.2.2 Flashing.** Install flashings integrated with a drainage plane. 5.410.4 Testing and adjusting. Documentation and training. New buildings less than 10,000 square feet. Testing and adjusting of systems shall be required for new ENERGY EQUIVALENT (NOISE) LEVEL (Leq). The level of a steady noise which would have the same energy as Commissioning report. buildings less than 10,000 square feet or new systems to serve an addition or alteration subject to the fluctuating noise level integrated over the time of period of interest. **EXPRESSWAY.** An arterial highway for through traffic which may have partial control of access, but which may or may Unconditioned warehouses of any size. Note: For energy-related systems under the scope (Section 100) of the California Energy Code, not be divided or have grade separations at intersections. 2. Areas less than 10,000 square feet used for offices or other conditioned accessory spaces including heating, ventilation, air conditioning (HVAC) systems and controls, indoor lighting SECTION 5.408 CONSTRUCTION WASTE REDUCTION, DISPOSAL AND within unconditioned warehouses. FREEWAY. A divided arterial highway with full control of access and with grade separations at intersections. system and controls, as well as water heating systems and controls, refer to California Energy RECYCLING 3. Tenant improvements less than 10,000 square feet as described in Section 303.1.1. Code Section 120.8 for commissioning requirements and Sections 120.5, 120.6, 130.4, and 4. Open parking garages of any size, or open parking garage areas, of any size, within a GLOBAL WARMING POTENTIAL (GWP). The radiative forcing impact of one mass-based unit of a given greenhouse 5.408.1 CONSTRUCTION WASTE MANAGEMENT. Recycle and/or salvage for reuse a minimum of 65% of the 140.9(b)3 for additional testing requirements of specific systems. gas relative to an equivalent unit of carbon dioxide over a given period of time. Carbon dioxide is the reference structure. non-hazardous construction and demolition waste in accordance with Section 5.408.1.1, 5.408.1.2 or 5.408.1.3; or neet a local construction and demolition waste management ordinance, whichever is more stringent. 5.410.4.2 Systems. Develop a written plan of procedures for testing and adjusting systems. Systems to be included GLOBAL WARMING POTENTIAL VALUE (GWP VALUE). A 100-year GWP value published by the 5.408.1.1 Construction waste management plan. Where a local jurisdiction does not have a construction and For the purposes of this section, unconditioned shall mean a building, area, or room which does for testing and adjusting shall include, as applicable to the project: Intergovernmental Panel on Climate Change (IPCC) in either its Second Assessment Report (SAR) (IPCC, 1995); or demolition waste management ordinance, submit a construction waste management plan that: not provide heating and or air conditioning. Renewable energy systems. its Fourth Assessment A-3 Report (AR4) (IPCC, 2007). The SAR GWP values are found in column "SAR (100-yr)" of Landscape irrigation systems. Table 2.14.; the AR4 GWP values are found in column "100 yr" of Table 2.14. 1. Identifies the construction and demolition waste materials to be diverted from disposal by efficient Informational Notes: Water reuse systems. usage, recycling, reuse on the project or salvage for future use or sale. HIGH-GWP REFRIGERANT. A compound used as a heat transfer fluid or gas that is: (a) a chlorofluorocarbon, a 2. Determines if construction and demolition waste materials will be sorted on-site (source-separated) or 1. IAS AC 476 is an accreditation criteria for organizations providing training and/or certification 5.410.4.3 Procedures. hdrochlorofluorocarbon, a hydrofluorocarbon, a perfluorocarbon, or any compound or blend of compounds, with a of commissioning personnel. AC 476 is available to the Authority Having Jurisdiction as a GWP value equal to or greater than 150, or (B) any ozone depleting substance as defined in Title 40 of the Code of Perform testing and adjusting procedures in accordance with manufacturer's specifications . Identifies diversion facilities where construction and demolition waste material collected will be taken. reference for qualifications of commissioning personnel. AC 476 does not certify individuals to Federal Regulations, Part 82, sec.82.3 (as amended March 10, 2009). 4. Specifies that the amount of construction and demolition waste materials diverted shall be calculated and applicable standards on each system. conduct functional performance tests or to adjust and balance systems. by weight or volume, but not by both. LONG RADIUS ELBOW. Pipe fitting installed between two lengths of pipe or tubing to allow a change of direction, 2. Functional performance testing for heating, ventilation, air conditioning systems and lighting 5.410.4.3.1 HVAC balancing with a radius 1.5 times the pipe diameter. controls must be performed in compliance with the California Energy Code. 5.408.1.2 Waste Management Company. Utilize a waste management company that can provide verifiable In addition to testing and adjusting, before a new space-conditioning system serving a building documentation that the percentage of construction and demolition waste material diverted from the landfill or space is operated for normal use, balance the system in accordance with the procedures LOW-GWP REFRIGERANT. A compound used as a heat transfer fluid or gas that: (A) has a GWP value less than 5.410.2.1 Owner's or Owner representative's Project Requirements (OPR). [N] defined by the Testing Adjusting and Balancing Bureau National Standards; the National 150, and (B) is not an ozone depleting substance as defined in Title 40 of the Code of Federal Regulations, Part 82, The expectations and requirements of the building appropriate to its phase shall be documented Environmental Balancing Bureau Procedural Standards; Associated Air Balance Council sec.82.3 (as amended March 10, 2009). Note: The owner or contractor shall make the determination if the construction and demolition waste material before the design phase of the project begins. National Standards or as approved by the enforcing agency. will be diverted by a waste management company. MERV. Filter minimum efficiency reporting value, based on ASHRAE 52.2–1999. This documentation shall include the following: Exceptions to Sections 5.408.1.1 and 5.408.1.2: MAXIMUM INCREMENTAL REACTIVITY (MIR). The maximum change in weight of ozone formed by adding a Environmental and sustainability goals. After completion of testing, adjusting and balancing, provide a final report of testing signed by the compound to the "Base REactive Organic Gas (ROG) Mixture" per weight of compound added, expressed to Excavated soil and land-clearing debris. Building sustainable goals. individual responsible for performing these services. hundreths of a gram (g O3/g ROC). 3. Indoor environmental quality requirements. 2. Alternate waste reduction methods developed by working with local agencies if diversion or recycle 4. Project program, including facility functions andhours of operation, and need for after facilities capable of compliance with this item do not exist. 5.410.4.5 Operation and maintenance (O & M) manual. PRODUCT-WEIGHTED MIR (PWMIR). The sum of all weighted-MIR for all ingredients in a product subject to this 3. Demolition waste meeting local ordinance or calculated in consideration of loacl recycleing facilities hours operation. Provide the building owner or representative with detailed operating and maintenance instructions article. The PWMIR is the total product reactivity expressed to hundredths of a gram of ozone formed per gram of Equipment and systems expectations. and copies of guaranties/warranties for each system. O & M i nstructions shall be consistent with product (excluding container and packaging). 6. Building occupant and operation and maintenance (O&M) personnel expectations. OSHA requirements in CCR, Title 8, Section 5142, and other related regulations. 5.408.1.3 Waste stream reduction alternative. The combined weight of new construction disposal that does PSIG. Pounds per square inch, guage. not exceed two pounds per square foot of building area may be deemed to meet the 65% minimum requirement 5.410.2.2 Basis of Design (BOD). [N] 5.410.4.5.1 Inspections and reports. as approved by the enforcing agency. A written explanation of how the design of the building systems meets the OPR shall be completed REACTIVE ORGANIC COMPOUND (ROC). Any compound that has the potential, once emitted, to contribute to Include a copy of all inspection verifications and reports required by the enforcing agency. at the design phase of the building project. The Basis of Design document shall cover the following ozone formation in the troposphere. 5.408.1.4 Documentation. Documentation shall be provided to the enforcing agency which demonstrates compliance with Sections 5.408.1.1, through 5.408.1.3. The waste management plan shall be updated as SCHRADER ACCESS VALVES. Access fittings with a valve core installed. necessary and shall be accessible during construction for examination by the enforcing agency. 1. Renewable energy systems. SHORT RADIUS ELBOW. Pipe fitting installed between two lengths of pipe or tubing to allow a change of direction, Landscape irrigation systems. with a radius 1.0 times the pipe diameter. Water reuse systems. 1. Sample forms found in "A Guide to the California Green Building Standards Code (Nonresidential)" SUPERMARKET. For the purposes of Section 5.508.2, a supermarket is any retail food facility with 8,000 square feet located at www.bsc.ca.gov/Home/CALGreen.aspx may be used to assist in documenting compliance 5.410.2.3 Commissioning plan. [N] or more conditioned area, and that utilizes either refrigerated display cases, or walk-in coolers or freezers connected with the waste management plan. Prior to permit issuance a commissioning plan shall be completed to document how the project to remote compressor units or condensing units. 2. Mixed construction and demolition debris processors can be located at the California Department of will be commissioned. The commissioning plan shall include the following: Resources Recycling and Recovery (CalRecycle). VOC. A volatile organic compound broadly defined as a chemical compound based on carbon chains or rings with vapor pressures greater than 0.1 millimeters of mercury at room temperature. These compounds typically contain 1. General project information. 5.408.2 UNIVERSAL WASTE. [A] Additions and alterations to a building or tenant space that meet the scoping hydrogen and may contain oxygen, nitrogen and other elements. See CCR Title 17, Section 94508(a) Commissioning goals. provisions in Section 301.3 for nonresidential additions and alterations, shall require verification that Universal Waste 3. Systems to be commissioned. Plans to test systems and components shall include: items such as fluorescent lamps and ballast and mercury containing thermostats as well as other California prohibited Note: Where specific regulations are cited from different agencies such as SCAQMD, ARB, etc., the VOC definition Universal Waste materials are disposed of properly and are diverted from landfills. A list of prohibited Universal Waste a. An explanation of the original design intent. included in that specific regulation is the one that prevails for the specific measure in question. materials shall be included in the construction documents. Equipment and systems to be tested, including the extent of tests. c. Functions to be tested. Note: Refer to the Universal Waste Rule link at: d. Conditions under which the test shall be performed. 5.503.1 FIREPLACES. Install only a direct-vent sealed-combustion gas or sealed wood-burning fireplace, or a sealed http://www.dtsc.ca.gov/LawsRegsPolicies/Regs/upload/OEAR-A_REGS_UWR_FinalText.pdf e. Measurable criteria for acceptable performance. woodstove or pellet stove, and refer to residential requirements in the California Energy Code, Title 24, Part 6, Subchapter 7, Section 150. Woodstoves, pellet stoves and fireplaces shall comply with applicable local ordinances. Commissioning team information. 5.408.3 EXCAVATED SOIL AND LAND CLEARING DEBRIS. 100 percent of trees, stumps, rocks and associated 5. Commissioning process activities, schedules and responsibilities. Plans for the completion of vegetation and soils resulting primarily from land clearing shall be reused or recycled. For a phased project, such 5.503.1.1 Woodstoves. Woodstoves and pellet stoves shall comply with U.S. EPA New Source Performance commissioning shall be included. material may be stockpiled on site until the storage site is developed. Standards (NSPS) emission limits as applicable, and shall have a permanent label indicating they are certified to meet the emission limits. **Exception:** Reuse, either on or off-site, of vegetation or soil contaminated by disease or pest infestation. **SECTION 5.504 POLLUTANT CONTROL** 5.504.1 TEMPORARY VENTILATION. The permanent HVAC system shall only be used during construction if 1. If contamination by disease or pest infestation is suspected, contact the County Agricultural necessary to condition the building or areas of addition or alteration within the required temperature range for Commissioner and follow its direction for recycling or disposal of the material. material and equipment installation. If the HVAC system is used during construction, use return air filters with a 2. For a map of know pest and/or disease quarantine zones, consult with the California Department of Minimum Efficiency Reporting Value (MERV) of 8, based on ASHRAE 52.2-1999, or an average efficiency of Food and Agriculture. (www.cdfa.ca.gov) 30% based on ASHRAE 52.1-1992 Replace all filters immediately prior to occupancy, or, if the building is occupied during alteration, at the conclusion of construction. 5.504.3 Covering of duct openings and protection of mechanical equipment during construction. At the time of rough installation, or during storage on the construction site and until final startup of the heating, cooling and ventilating equipment, all duct and other related air distribution component openings shall be covered with tape, plastic, sheet metal or other methods acceptable to the enforcing agency to reduce the amount of dust, water and debris which may collect in the system. DISCLAIMER: THIS DOCUMENT IS PROVIDED AND INTENDED TO BE USED AS A MEANS TO INDIVIDUAL PROJECT BASIS AND MAY BE MODIFIED BY THE END USER TO MEET THOSE INDIVIDUAL PROJECT BASIS AND MAY BE MODIFIED BY THE END USER TO MEET THOSE INDIVIDUAL PROJECT BASIS AND MAY BE MODIFIED BY THE END USER ASSUMES ALL RESPONSIBILITY ASSOCIATED WITH THE FULL CODE OF THIS DOCUMENT, INCLUDING STANDARDS (CALGREEN) CODE. DUE TO THE VARIABLES BETWEEN BUILDING STANDARDS (CALGREEN) CODE. DUE TO THE VARIABLES BETWEEN BUILDING STANDARDS (CALGREEN) CODE. DUE TO THE VARIABLES BETWEEN BUILDING STANDARDS (CALGREEN) CODE. DUE TO THE VARIABLES BETWEEN BUILDING STANDARDS (CALGREEN) CODE. DUE TO THE VARIABLES BETWEEN BUILDING STANDARDS (CALGREEN) CODE. DUE TO THE VARIABLES BETWEEN BUILDING STANDARDS (CALGREEN) CODE. DUE TO THE VARIABLES BETWEEN BUILDING STANDARDS (CALGREEN) CODE. DUE TO THE VARIABLES BETWEEN BUILDING STANDARDS (CALGREEN) CODE. DUE TO THE VARIABLES BETWEEN BUILDING STANDARDS (CALGREEN) CODE. 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PROPOSED EXTERIOR IMPROVEMENTS

37-45 Calle Laureles Street 2946-48 De La Vina Street

3R SUBMITTA

JOB NUMBER TBD
PIC PA

DESCRIPTION

ABR SUBMITTAL

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DATE

4/29/20

A REVISIONS

No. DESCRIPTION

CGBC (NR) - Sheet 2

C011

SCALE: Drawing Scale

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with Section 94507.

FIBERGLASS

SIGNOFF

2016 CALIFORNIA GREEN BUILDING STANDARDS CODE

NONRESIDENTIAL MANDATORY MEASURES, SHEET 3 (INCLUDING SUPPLEMENT-BLUE EFFECTIVE JULY 1, 2018) NO CHANGE

SIGNOFF

SIGNOFF 5.504.4 FINISH MATERIAL POLLUTANT CONTROL. Finish materials shall comply with Sections 5.504.4.1 through 5.504.4.1 Adhesives, sealants and caulks. Adhesives, sealants, and caulks used on the project shall meet the requirements of the following standards: 1. Adhesives, adhesive bonding primers adhesive primers, sealants, sealant primers and caulks shall comply with local or regional air pollution control or air quality management district rules where applicable, or SCAQMD Rule 1168 VOC limits, as shown in Tables 5.504.4.1 and 5.504.4.2. Such products also shall comply with the Rule 1168 prohibition on the use of certain toxic compounds (chloroform, ethylene dichloride, methylene chloride, perchloroethylene and trichloroethylene), except for aerosol products as specified in subsection 2, below. Aerosol adhesives, and smaller unit sizes of adhesives, and sealant or caulking compounds (in units of product, less packaging, which do not weigh more than one pound and do not consist of more

> than 16 fluid ounces) shall comply with statewide VOC standards and other requirements, including prohibitions on use of certain toxic compounds, of California Code of Regulations, Title 17, commencing

Less Water and Less Exempt Compounds in Grams per Liter			
ARCHITECTURAL APPLICATIONS	CURRENT VOC LIMIT		
INDOOR CARPET ADHESIVES	50		
CARPET PAD ADHESIVES	50		
OUTDOOR CARPET ADHESIVES	150		
WOOD FLOORING ADHESIVES	100		
RUBBER FLOOR ADHESIVES	60		
SUBFLOOR ADHESIVES	50		
CERAMIC TILE ADHESIVES	65		
VCT & ASPHALT TILE ADHESIVES	50		
DRYWALL & PANEL ADHESIVES	50		
COVE BASE ADHESIVES	50		
MULTIPURPOSE CONSTRUCTION ADHESIVES	70		
STRUCTURAL GLAZING ADHESIVES	100		
SINGLE-PLY ROOF MEMBRANE ADHESIVES	250		
OTHER ADHESIVES NOT SPECIFICALLY LISTED	50		
SPECIALTY APPLICATIONS			
PVC WELDING	510		
CPVC WELDING	490		
ABS WELDING	325		
PLASTIC CEMENT WELDING	250		
ADHESIVE PRIMER FOR PLASTIC	550		
CONTACT ADHESIVE	80		
SPECIAL PURPOSE CONTACT ADHESIVE	250		
STRUCTURAL WOOD MEMBER ADHESIVE	140		
TOP & TRIM ADHESIVE	250		
SUBSTRATE SPECIFIC APPLICATIONS			
METAL TO METAL	30		
PLASTIC FOAMS	50		
POROUS MATERIAL (EXCEPT WOOD)	50		
WOOD	30		

1. IF AN ADHESIVE IS USED TO BOND DISSIMILAR SUBSTRATES TOGETHER, THE ADHESIVE WITH THE HIGHEST VOC CONTENT SHALL BE ALLOWED.

80

2. FOR ADDITIONAL INFORMATION REGARDING METHODS TO MEASURE THE VOC CONTENT SPECIFIED IN THIS TABLE, SEE SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT RULE 1168, www.arb.ca.gov/DRDB/SC/CURHTML/R1168.PDF

SEALANTS	CURRENT VOC LIMIT
ARCHITECTURAL	250
MARINE DECK	760
NONMEMBRANE ROOF	300
ROADWAY	250
SINGLE-PLY ROOF MEMBRANE	450
OTHER	420
SEALANT PRIMERS	
ARCHITECTURAL	
NONPOROUS	250
POROUS	775
MODIFIED BITUMINOUS	500
MARINE DECK	760
OTHER	750

5.504.4.3 Paints and coatings. Architectural paints and coatings shall comply with VOC limits in Table 1 of the ARB Architectural Coatings Suggested Control Measure, as shown in Table 5.504.4.3, unless more stringent local limits apply. The VOC content limit for coatings that do not meet the definitions for the specialty coatings categories listed in Table 5.504.4.3 shall be determined by classifying the coating as a Flat, Nonflat or Nonflat-High Gloss coating, based on its gloss, as defined in Subsections 4.21, 4.36 and 4.37 of the 2007 California Air Resources Board Suggested Control Measure, and the corresponding Flat, Nonflat or Nonflat-High Gloss VOC limit in Table 5.504.4.3 shall apply.

5.504.4.3.1 Aerosol Paints and coatings. Aerosol paints and coatings shall meet the PWMIR Limits for ROC in Section 94522(a)(3) and other requirements, including prohibitions on use of certain toxic compounds and ozone depleting substances, in Sections 94522(c)(2) and (d)(2) of California Code of Regulations, Title 17, commencing with Section 94520; and in areas under the jurisdiction of the Bay Area Air Quality Management District additionally comply with the percent VOC by weight of product limits of Regulation 8 Rule 49.

GRAMS OF VOC PER LITER OF COATING, LESS WATER & LESS EXEMPT	COMPOUNDS		
COATING CATEGORY CURRENT VOC LIMIT			
FLAT COATINGS	50		
NONFLAT COATINGS	100		
NONFLAT HIGH GLOSS COATINGS	150		
SPECIALTY COATINGS			
ALUMINUM ROOF COATINGS	400		
BASEMENT SPECIALTY COATINGS	400		
BITUMINOUS ROOF COATINGS	50		
BITUMINOUS ROOF PRIMERS	350		
BOND BREAKERS	350		
CONCRETE CURING COMPOUNDS	350		
CONCRETE/MASONRY SEALERS	100		
DRIVEWAY SEALERS	50		
DRY FOG COATINGS	150		
FAUX FINISHING COATINGS	350		
FIRE RESISTIVE COATINGS	350		
FLOOR COATINGS	100		
FORM-RELEASE COMPOUNDS	250		
GRAPHIC ARTS COATINGS (SIGN PAINTS)	500		
HIGH-TEMPERATURE COATINGS	420		
INDUSTRIAL MAINTENANCE COATINGS	250		
LOW SOLIDS COATINGS1	120		
MAGNESITE CEMENT COATINGS	450		
MASTIC TEXTURE COATINGS	100		
METALLIC PIGMENTED COATINGS	500		
MULTICOLOR COATINGS	250		
PRETREATMENT WASH PRIMERS	420		
PRIMERS, SEALERS, & UNDERCOATERS	100		
REACTIVE PENETRATING SEALERS	350		
RECYCLED COATINGS	250		
ROOF COATINGS	50		
RUST PREVENTATIVE COATINGS	250		
SHELLACS:			
CLEAR	730		
OPAQUE	550		
SPECIALTY PRIMERS, SEALERS & UNDERCOATERS	100		
STAINS	250		
STONE CONSOLIDANTS	450		
SWIMMING POOL COATINGS	340		
TRAFFIC MARKING COATINGS	100		
TUB & TILE REFINISH COATINGS	420		
WATERPROOFING MEMBRANES	250		
WOOD COATINGS	275		
WOOD PRESERVATIVES	350		
ZINC-RICH PRIMERS	340		

3. VALUES IN THIS TABLE ARE DERIVED FROM THOSE SPECIFIED BY THE CALIFORNIA AIR RESOURCES BOARD, ARCHITECTURAL COATINGS SUGGESTED CONTROL MEASURE, FEB. 1, 2008. MORE INFORMATION IS AVAILABLE FROM THE AIR RESOURCES BOARD.

5.504.4.3.2 Verification. Verification of compliance with this section shall be provided at the request of the enforcing agency. Documentation may include, but is not limited to, the following: Manufacturer's product specification 2. Field verification of on-site product containers

5.504.4.4 Carpet Systems. All carpet installed in the building interior shall meet at least one of the testing and product requirements:

 Carpet and Rug Institute's Green Label Plus Program. 2. Compliant with the VOC-emission limits and testing requirements specified in the California Department of Public Health Standard Method for the Testing and Evaluation of Volatile Organic Chemical Emissions from Indoor Sources Using Environmental Chambers, Version 1.1, February

2010 (also known as CDPH Standard Method V1.1 or Specification 01350). 3. NSF/ANSI 140 at the Gold level or higher; 4. Scientific Certifications Systems Sustainable Choice; or 5. Compliant with the Collaborative for High Performance Schools California (CA-CHPS) Criteria Interpretation for EQ 7.0 and EQ 7.1 (formerly EQ 2.2) dated July 2012 and listed in the CHPS High

requirements of the Carpet and Rug Institute Green Label program. 5.504.4.4.2 Carpet adhesive. All carpet adhesive shall meet the requirements of Table 5.504.4.1. **5.504.4.5 Composite wood products.** Hardwood plywood, particleboard and medium density fiberboard composite wood products used on the interior or exterior of the buildings shall meet the requirements for

formaldehyde as specified in ARB's Air Toxics Control Measure for Composite Wood (17 CCR 93120 et seq.).

hose materials not exempted under the ATCM must meet the specified emission limits, as shown in Table

5.504.4.4.1 Carpet cushion. All carpet cushion installed in the building interior shall meet the

5.504.4.5.3 Documentation. Verification of compliance with this section shall be provided as requested by the enforcing agency. Documentation shall include at least one of the following:

Product certifications and specifications.

2. Chain of custody certifications. 3. Product labeled and invoiced as meeting the Composite Wood Products regulation (see CCR. Title 17. Section 93120, et seq.).

4. Exterior grade products marked as meeting the PS-1 or PS-2 standards of the Engineered Wood Association, the Australian AS/NZS 2269 or European 636 3S

Other methods acceptable to the enforcing agency.

MAXIMUM FORMALDEHYDE EMISSIONS IN PARTS PER MILLION			
PRODUCT	CURRENT LIMIT		
HARDWOOD PLYWOOD VENEER CORE	0.05		
HARDWOOD PLYWOOD COMPOSITE CORE	0.05		
PARTICLE BOARD	0.09		
MEDIUM DENSITY FIBERBOARD	0.11		
THIN MEDIUM DENSITY FIBERBOARD2	0.13		

ADDITIONAL INFORMATION, SEE CALIFORNIA CODE OF REGULATIONS, TITLE 17, SECTIONS 93120 THROUGH 2. THIN MEDIUM DENSITY FIBERBOARD HAS A MAXIMUM THICKNESS OF 5/16 INCHES (8 MM).

5.504.4.6 Resilient flooring systems. For 80 percent of floor area receiving resilient flooring, installed

resilient flooring shall meet at least one of the following:

AIR TOXICS CONTROL MEASURE FOR COMPOSITE WOOD AS TESTED IN ACCORDANCE WITH ASTM E 1333. FOR

. Certified under the Resilient Floor Covering Institute (RFCI) FloorScore program; . Compliant with the VOC-emission limits and testing requirements specified in the California Department of Public Health's 2010 Standard Method for the Testing and Evaluation Chambers,

Version 1.1, February 2010; 3. Compliant with the Collaborative for High Performance Schools California (CA-CHPS) Criteria Interpretation for EQ 7. and EQ 7.1 (formerly EQ 2.2) dated July 2012 and listed in the CHPS High

Performance Product DataBase: or 4. Products certified under UL GREENGUARD Gold (formerly the Greenguard Children's & Schools

5.504.4.6.1 Verification of compliance. Documentation shall be provided verifying that resilient flooring materials meet the pollutant emission limits 5.504.5.3 Filters. In mechanically ventilated buildings, provide regularly occupied areas of the building with air

filtration media for outside and return air that provides at least a Minimum Efficiency Reporting Value (MERV) of 8. MERV 8 filters shall be installed prior to occupancy, and recommendations for maintenance with filters of the same value shall be included in the operation and maintenance manual.

1. An ASHRAE 10% to 15% efficiency filter shall be permitted for an HVAC unit meeting the 2013 California Energy Code having 60,000 Btu/h or less capacity per fan coil, if the energy use of the air delivery system is 0.4 W/cfm or less at design air flow. Existing mechanical equipment.

5.504.7 ENVIRONMENTAL TOBACCO SMOKE (ETS) CONTROL. Where outdoor areas are provided for smoking, prohibit smoking within 25 feet of building entries, outdoor air intakes and operable windows and within the building as already prohibited by other laws or regulations; or as enforced by ordinances, regulations or policies of any city, county, city and county, California Community College, campus of the California State University, or campus of the University of California, whichever are more stringent. When ordinances, regulations or policies are not in place, post signage to inform building occupants of the prohibitions.

SECTION 5.505 INDOOR MOISTURE CONTROL 5.505.1 INDOOR MOISTURE CONTROL. Buildings shall meet or exceed the provisions of California Building Code,

CCR, Title 24, Part 2, Sections 1203 (Ventilation) and Chapter 14 (Exterior Walls). For additional measures not

applicable to low-rise residential occupancies, see Section 5.407.2 of this code.

SECTION 5.506 INDOOR AIR QUALITY 5.506.1 OUTSIDE AIR DELIVERY. For mechanically or naturally ventilated spaces in buildings, meet the minimum requirements of Section 120.1 (Requirements For Ventilation) of the California Energy Code, or the applicable local code, whichever is more stringent, and Division 1, Chapter 4 of CCR, Title 8.

5.506.2 CARBON DIOXIDE (CO2) MONITORING. For buildings or additions equipped with demand control ventilation, CO₂ sensors and ventilation controls shall be specified and installed in accordance with the requirements of the California Energy Code, Section 120(c)(4).

SECTION 5.507 ENVIRONMENTAL COMFORT

5.507.4 ACOUSTICAL CONTROL. Employ building assemblies and components with Sound Transmission Class (STC) values determined in accordance with ASTM E 90 and ASTM E 413, or Outdoor-Indoor Sound Transmission Class (OITC) determined in accordance with ASTM E 1332, using either the prescriptive or performance method in Section 5.507.4.1 or 5.507.4.2.

Exception: Buildings with few or no occupants or where occupants are not likely to be affected by exterior

noise, as determined by the enforcement authority, such as factories, stadiums, storage, enclosed parking Exception: [DSA-SS] For public schools and community colleges, the requirements of this section and all

subsections apply only to new construction. 5.507.4.1 Exterior noise transmission, prescriptive method. Wall and roof-ceiling assemblies exposed to the noise source making up the building or addition envelope or altered envelope shall meet a composite STC rating of at least 50 or a composite OITC rating of no less than 40, with exterior windows of a minimum STC of

40 or OITC of 30 in the following locations: Within the 65 CNEL noise contour of an airport.

a. Ldn or CNEL for military airports shall be determined by the facility Air Installation Compatible Land Use Zone (AICUZ) plan. b. Ldn or CNEL for other airports and heliports for which a land use plan has not been developed

shall be determined by the local general plan noise element. 2. Within the 65 CNEL or Ldn noise contour of a freeway or expressway, railroad, industrial source or fixed-guideway source as determined by the Noise Element of the General Plan.

5.507.4.1.1. Noise exposure where noise contours are not readily available. Buildings exposed to a noise level of 65 dB Len - 1-hr during any hour of operation shall have building, addition or alteration exterior wall and roof-ceiling assemblies exposed to the noise source meeting a composite STC rating of at least 45 (or OITC 35), with exterior windows of a minimum STC of 40 (or OITC 30).

roof-ceiling assemblies exposed to the noise source making up the building or addition envelope or altered envelope shall be constructed to provide an interior noise environment attributable to exterior sources that does not exceed an hourly equivalent noise level (Leq-1Hr) of 50 dBA in occupied areas during any hour of operation.

5.507.4.2 Performance Method. For buildings located as defined in Section 5.507.4.1 or 5.507.4.1.1, wall and

5.507.4.2.1 Site Features. Exterior features such as sound walls or earth berms may be utilized as appropriate to the building, addition or alteration project to mitigate sound migration to the interior.

5.507.4.2.2 Documentation of Compliance. An acoustical analysis documenting complying interior sound levels shall be prepared by personnel approved by the architect or engineer of record. 5.507.4.3 Interior sound transmission. Wall and floor-ceiling assemblies separating tenant spaces and tenant

spaces and public places shall have an STC of at least 40. Note: Examples of assemblies and their various STC ratings may be found at the California Office of Noise Control: www.toolbase.org/PDF/CaseStudies/stc_icc_ratings.pdf.

SECTION 5.508 OUTDOOR AIR QUALITY 5.508.1 Ozone depletion and greenhouse gas reductions. Installations of HVAC, refrigeration and fire suppression

equipment shall comply with Sections 5.508.1.1 and 5.508.1.2. 5.508.1.1 Chlorofluorocarbons (CFCs). Install HVAC, refrigeration and fire suppression equipment that do not

5.508.1.2 Halons. Install HVAC, refrigeration and fire suppression equipment that do not contain Halons.

5.508.2 Supermarket refrigerant leak reduction. New commercial refrigeration systems shall comply with the provisions of this section when installed in retail food stores 8,000 square feet or more conditioned area, and that utilize either refrigerated display cases, or walk-in coolers or freezers connected to remote compressor units or condensing units. The leak reduction measures apply to refrigeration systems containing high-global-warming potential (high-GWP) refrigerants with a GWP of 150 or greater. New refrigeration systems include both new facilities and the replacement of existing refrigeration systems in existing facilities.

Exception: Refrigeration systems containing low-global warming potential (low-GWP) refrigerant with a GWP value less than 150 are not subject to this section. Low-GWP refrigerants are nonozone-depleting refrigerants that include ammonia, carbon dioxide (CO₂), and potentially other refrigerants.

SIGNOFF

accessible for leak protection and repairs. Piping runs using threaded pipe, copper tubing with an outside diameter (OD) less than 1/4 inch, flared tubing connections and short radius elbows shall not be used in refrigerant systems except as noted below.

5.508.2.1 Refrigerant piping. Piping compliant with the California Mechanical Code shall be installed to be

5.508.2.1.1 Threaded pipe. Threaded connections are permitted at the compressor rack. 5.508.2.1.2 Copper pipe. Copper tubing with an OD less than 1/4 inch may be used in systems with a

5.508.2.1.2.1 Anchorage. One-fouth-inch OD tubing shall be securely clamped to a rigid base to keep vibration levels below 8 mils.

5.508.2.1.3 Flared tubing connections. Double-flared tubing connections may be used for pressure

controls, valve pilot lines and oil. Exception: Single-flared tubing connections may be used with a multiring seal coated with industrial

refrigerant charge of 5 pounds or less.

sealant suitable for use with refrigerants and tightened in accordance with manufacturer's 5.508.2.1.4 Elbows. Short radius elbows are only permitted where space limitations prohibit use of

5.508.2.2 Valves. Valves Valves and fittings shall comply with the California Mechanical Code and as

5.508.2.2.1 Pressure relief valves. For vessels containing high-GWP refrigerant, a rupture disc shall

be installed between the outlet of the vessel and the inlet of the pressure relief valve. 5.508.2.2.1.1 Pressure detection. A pressure gauge, pressure transducer or other device shall be installed in the space between the rupture disc and the relief valve inlet to indicate a disc

rupture or discharge of the relief valve. 5.508.2.2.2 Access valves. Only Schrader access valves with a brass or steel body are

permitted for use. 5.508.2.2.2.1 Valve caps. For systems with a refrigerant charge of 5 pounds or more, valve caps

5.508.2.2.2 Seal caps. If designed for it, the cap shall have a neoprene O-ring in place.

5.508.2.2.2.2.1 Chain tethers. Chain tethers to fit ovr the stem are required for valves

designed to have seal caps. Exception: Valves with seal caps that are not removed from the valve during stem operation.

5.508.2.3 Refrigerated service cases. Refrigerated service cases holding food products containing vinegar and salt shall have evaporator coils of corrosion-reistant material, such as stainless steel; or be coated to prevent

5.508.2.3.1 Coil coating. Consideration shall be given to the heat transfer efficiency of coil coating to maximize energy efficiency.

5.508.2.4 Refrigerant receivers. Refrigerant receivers with capacities greater than 200 pounds shall be fitted with a device tha indicates the level of refrigerant in the receiver.

5.508.2.5 Pressure testing. The system shall be pressure tested during installation prior to evacuation and

5.508.2.5.1 Minimum pressure. The system shall be charged with regulated dry nitrogen and appropriate tracer gas to bring system pressure up to 300 psig minimum.

5.508.2.5.2 Leaks. Check the system for leaks, repair any leaks, and retest for pressure using the same

5.508.2.5.3 Allowable pressure change. The system shall stand, unaltered, for 24 hours with no more than a +/- one pound pressure change from 300 psig, measured with the same gauge. 5.508.2.6 Evacuation. The system shall be evacuated after pressure testing and prior to charging.

5.508.2.6.1 First vacuum. Pull a system vacuum down to at least 1000 microns (+/- 50 microns), and hold for 30 minutes. 5.508.2.6.2 Second vacuum. Pull a second system vacuum to a minimum of 500 microns and hold for 30

5.508.2.6.3 Third vacuum. Pull a third vacuum down to a minimum of 300 microns, and hold for 24 hours with a maximum drift of 100 microns over a 24-hour period.

INSTALLER & SPECIAL INSPECTOR QUALIFICATIONS

702 QUALIFICATIONS

702.1 INSTALLER TRAINING. HVAC system installers shall be trained and certified in the proper nstallation of HVAC systems including ducts and equipment by a nationally or regionally recognized training or certification program. Uncertified persons may perform HVAC installations when under the direct supervision and responsibility of a person trained and certified to install HVAC systems or contractor licensed to install HVAC systems. Examples of acceptable HVAC training and certification programs include but are not limited to the following:

 State certified apprenticeship programs. Public utility training programs.

Training programs sponsored by trade, labor or statewide energy consulting or verification organizations. Programs sponsored by manufacturing organizations.

Other programs acceptable to the enforcing agency. 702.2 SPECIAL INSPECTION [HCD]. When required by the enforcing agency, the owner or the esponsible entity acting as the owner's agent shall employ one or more special inspectors to provide inspection or

other duties necessary to substantiate compliance with this code. Special inspectors shall demonstrate competence to the satisfaction of the enforcing agency for the particular type of inspection or task to be performed. In addition to other certifications or qualifications acceptable to the enforcing agency, the following certifications or education may be considered by the enforcing agency when evaluating the qualifications of a special inspector:

. Certification by a national or regional green building program or standard publisher. 2. Certification by a statewide energy consulting or verification organization, such as HERS raters, building performance contractors, and home energy auditors.

3. Successful completion of a third party apprentice training program in the appropriate trade. Other programs acceptable to the enforcing agency.

1. Special inspectors shall be independent entities with no financial interest in the materials or the project they are inspecting for compliance with this code. 2. HERS raters are special inspectors certified by the California Energy Commission (CEC) to rate homes in California according to the Home Energy Rating System (HERS).

[BSC-CG] When required by the enforcing agency, the owner or the responsible entity acting as the owner's agent shall employ one or more special inspectors to provide inspection or other duties necessary to substantiate compliance with this code. Special inspectors shall demonstrate competence to the satisfaction of the enforcing agency for the particular type of inspection or task to be performed. In addition, the special inspector shall have a certification from a recognized state, national or international association, as determined by the local agency. The area of certification shall be closely related to the primary job function, as determined by the local agency.

Note: Special inspectors shall be independent entities with no financial interest in the materials or the project they are inspecting for compliance with this code.

703 VERIFICATIONS

703.1 DOCUMENTATION. Documentation used to show compliance with this code shall include but is not limited to, construction documents, plans, specifications, builder or installer certification, inspection reports, or other methods acceptable to the enforcing agency which demonstrate substantial conformance. When specific documentation or special inspection is necessary to verify compliance, that method of compliance will be specified in the appropriate section or identified applicable checklist.

PROPOSED EXTERIOR **IMPROVEMENTS**

37-45 Calle Laureles Street 2946-48 De La Vina Street

MILESTONES / SUBMITTALS

DESCRIPTION

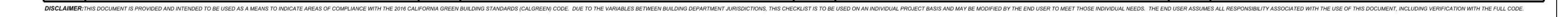
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ABR SUBMITTAL	4/29/20

△ REVISIONS No. DESCRIPTION

CGBC (NR) - Sheet





2. Automobile access or accessible routes are not required when the enforcing agency determines compliance with 11B-305.3 Size. The clear floor or ground space shall be 30 inches (762 mm) minimum by 48 this chapter would create an unreasonable hardship as defined in Chapter 2, Section 202. **11B-246.2 Camping facilities.** In camping facilities where campsites are provided, at least two campsites and one additional campsite for each 100 campsites or fraction thereof, shall be accessed by and connected to sanitary facilities by travel routes with a maximum slope of 1:12. Permanent toilet and bathing facilities serving campsites shall comply with Section

11B-246.3 Beaches. Beaches shall be accessible. 11B-246.4 Day use areas and vista points. Day use areas, vista points, and similar areas

11B-246.5 Picnic areas. Where picnic tables are provided, at least one picnic table, and one additional table for each 20 tables or fraction thereof, shall be accessible and comply with Section 11B-902.

shall be provided with curb cuts leading to adjacent walks, paths or trails. 11B-246.7 Trails and paths. Trails, paths and nature walk areas, or portions of them, shall 11B-305.5 Position. Unless otherwise specified, clear floor or ground space shall be be constructed with gradients permitting at least partial use by wheelchair occupants. Buildings and other functional areas shall be served by paths or walks with firm and stable 11B-246.8 Nature trails. Nature trails and similar educational and informational areas shall be accessible to individuals with vision impairments by the provision of rope guidelines,

raised Arabic numerals and symbols, or other similar guide and assistance devices.

11B-247 Detectable warnings and detectable directional texture 11B-247.1 Detectable warnings.

11B-247.1.1 General. Detectable warnings shall be provided in accordance with Section 11B-247.1 and shall comply with Section 11B-705.1. 11B-247.1.2 Where required. Detectable warnings shall be provided where required by 11B-247.1.2.1 Platform edges. Platform boarding edges shall have detectable warnings

complying with Sections 11B-705.1.1 and 11B-705.1.2.1. 11B-247.1.2.2 Curb ramps. Curb ramps shall have detectable warnings complying with Sections 11B-705.1.1 and 11B-705.1.2.2. 11B-247.1.2.3 Islands or cut-through medians. Islands or cut-through medians shall have chapter.

detectable warnings complying with Sections 11B-705.1.1 and 11B-705.1.2.3.

alighting areas in compliance with Section 11B-810.2.3, detectable warnings shall comply shall be provided in accordance with Sections 11B-305.7.1 and 11B-305.7.2. with Sections 11B-705.1.1 and 11B-705.1.2.4. 11B-247.1.2.5 Hazardous vehicular areas. If a walk crosses or adjoins a vehicular way, and the depth exceeds 24 inches (610 mm). the walking surfaces are not separated by curbs, railings or other elements between the pedestrian areas and vehicular areas, the boundary between the areas shall be defined by a continuous detectable warning complying with Sections 11B-705.1.1 and 11B-705.1.2.5.

11B-247.1.2.6 Reflecting pools. The edges of reflecting pools shall be protected by railings, walls, warning curbs or detectable warnings complying with Sections 11B-705.1.1 and 11B-705.1.2.6. **11B-247.1.2.7 Track crossings.** Where it is necessary to cross tracks to reach transit boarding platforms, detectable warnings complying with Sections 11B-705.1.1 and

11B-705.1.2.7 shall be provided. 11B-247.2 Detectable directional texture. At transit boarding platforms, the pedestrian access shall be identified with a detectable directional texture complying with Section 11B-

11B-248 Common use areas and employee work areas 11B-248.1 Common use areas. Common use areas shall comply with this chapter. 11B-248.2 Employee work areas. Employee work areas shall comply with this chapter.

11B-249 Adult changing facilities 11B-249.1 General. Adult changing facilities shall comply with Section 11B-249. 11B-249.1.1. Where adult changing facilities are provided, each adult changing facility shall

11B-249.1.2. Newly constructed commercial places of public amusement shall provide no fewer than one adult changing facility in compliance with Section 11B-813.

DIVISION 3 11B-301 General

11B-302 Floor or ground surfaces

11B-301.1 Scope. The provisions of Division 3 shall apply where required by Division 2 or where referenced by a requirement in this chapter.

11B-302.1 General. Floor and ground surfaces shall be stable, firm, and slip resistant and shall comply with Section 11B-302.

1. Within animal containment areas, floor and ground surfaces shall not be required to be stable, firm, and slip 2. Areas of sport activity shall not be required to comply with Section 11B-302.

11B-302.2 Carpet. Carpet or carpet tile shall be securely attached and shall have a firm cushion, pad, or backing or no cushion or pad. Carpet or carpet tile shall have a level loop, textured loop, level cut pile, level cut/uncut pile texture. Pile height shall be 1/2 inch (12.7 mm) maximum. Exposed edges of carpet shall be fastened to floor surfaces and shall have trim on the entire length of the exposed edge. Carpet edge trim shall comply with Section

11B-302.3 Openings. Openings in floor or ground surfaces shall not allow passage of a sphere more than 1/2 inch (12.7 mm) diameter except as allowed in Sections 11B-407.4.3, 11B-409.4.3, 11B-410.4, 11B-810.5.3 and 11B-810.10. Elongated openings shall be placed be accessible. so that the long dimension is perpendicular to the dominant direction of travel.

11B-303 Changes in level

11B-303.1 General. Where changes in level are permitted in floor or ground surfaces, they
11B-306.3.1 General. Space under an element between 9 inches (229 mm) and 27 inches shall comply with Section 11B-303.

1. Animal containment areas shall not be required to comply with Section 11B-303.

2. Areas of sport activity shall not be required to comply with Section 11B-303. 11B-303.2 Vertical. Changes in level of 1/4 inch (6.4 mm) high maximum shall be permitted 29 inches (737 mm) above the finish floor or ground, shall be considered knee clearance. to be vertical and without edge treatment.

11B-303.3 Beveled. Changes in level between 1/4 inch (6.4 mm) high minimum and 1/2 inch 2. At dining and work surfaces required to be accessible, knee clearance shall extend 19 inches (483 mm) deep (12.7 mm) high maximum shall be beveled with a slope not steeper than 1:2.

11B-303.4 Ramps. Changes in level greater than 1/2 inch (12.7 mm) high shall be ramped, 11B-307.1 Constant 1 Substitution 1 Su and shall comply with Section 11B-405 or 11B-406. 11B-303.5 Warning curbs. Abrupt changes in level exceeding 4 inches (102 mm) in a

vertical dimension between walks, sidewalks or other pedestrian ways and adjacent surfaces Exception: Handrails shall be permitted to protrude 41/2 inches (114 mm) maximum. or features shall be identified by warning curbs at least 6 inches (152 mm) in height above the walk or sidewalk surface. 1. A warning curb is not required between a walk or sidewalk and an adjacent street or driveway.

2. A warning curb is not required when a guard or handrail is provided with a guide rail centered 2 inches (51 mm) ninimum and 4 inches (102 mm) maximum above the surface of the walk or sidewalk. 1. A warning curb is not required between a walk or sidewalk and an adjacent street or driveway.

2. A warning curb is not required when a guard or handrail is provided with a guide rail centered 2 inches (51 mm) minimum and 4 inches (102 mm) maximum above the surface of the walk or sidewalk.

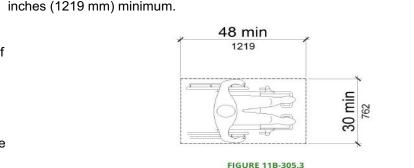
11B-304.1 General. Turning space shall comply with Section 11B-304. **11B-304.2 Floor or ground surfaces.** Floor or ground surfaces of a turning space shall comply with Section 11B-302. Changes in level are not permitted.

Exception: Slopes not steeper than 1:48 shall be permitted. **11B-304.3 Size.** Turning space shall comply with Section 11B-304.3.1 or 11B-304.3.2. **11B-304.3.1 Circular space.** The turning space shall be a space of 60 inches (1524 mm) diameter minimum. The space shall be permitted to include knee and toe clearance complying with Section 11B-306.

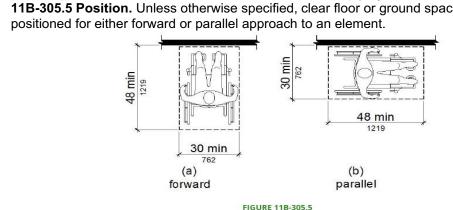
arm of the T shall be clear of obstructions 12 inches (305 mm) minimum in each direction and Exception: The sloping portions of handrails serving stairs and ramps shall not be required to comply with Section the base shall be clear of obstructions 24 inches (610 mm) minimum. The space shall be 11B-307.3. permitted to include knee and toe clearance complying with Section 11B-306 only at the end of either the base or one arm.

11B-305 Clear floor or ground space

11B-305.1 General. Clear floor or ground space shall comply with Section 11B-305. **11B-305.2 Floor or ground surfaces.** Floor or ground surfaces of a clear floor or ground Exception: Slopes not steeper than 1:48 shall be permitted.



11B-246.6 Parking lots. Parking lots shall comply with Sections 11B-208 and 11B-502 and 11B-305.4 Knee and toe clearance. Unless otherwise specified, clear floor or ground space shall be permitted to include knee and toe clearance complying with Section 11B-306.



POSITION OF CLEAR FLOOR OR GROUND SPACE **11B-305.6 Approach.** One full unobstructed side of the clear floor or ground space shall adjoin an accessible route or adjoin another clear floor or ground space. Clear floor or ground space may overlap an accessible route, unless specifically prohibited elsewhere in this

11B-305.7 Maneuvering clearance. Where a clear floor or ground space is located in an 11B-247.1.2.4 Bus stops. Where detectable warnings are provided at bus stop boarding and alcove or otherwise confined on all or part of three sides, additional maneuvering clearance 11B-305.7.1 Forward approach. Alcoves shall be 36 inches (914 mm) wide minimum where

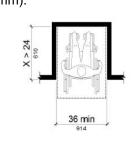


FIGURE 11B-305.7.1 MANEUVERING CLEARANCE IN AN ALCOVE, FORWARD APPROACH 11B-305.7.2 Parallel approach. Alcoves shall be 60 inches (1524 mm) wide minimum where

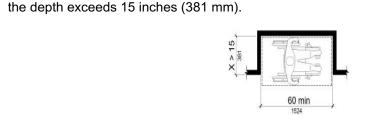


FIGURE 11B-305.7.2 MANEUVERING CLEARANCE IN AN ALCOVE, PARALLEL APPROACH

11B-306 Knee and toe clearance 11B-306.1 General. Where space beneath an element is included as part of clear floor or ground space or turning space, the space shall comply with Section 11B-306. Additional space shall not be prohibited beneath an element but shall not be considered as part of the clear floor or ground space or turning space.

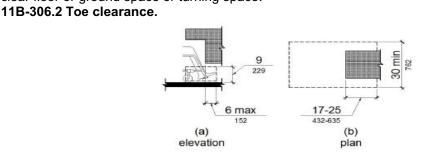


FIGURE 11B-306.2 TOE CLEARANCE

11B-306.2.1 General. Space under an element between the finish floor or ground and 9 inches (229 mm) above the finish floor or ground shall be considered toe clearance and shall comply with Section 11B-306.2. 11B-306.2.2 Maximum depth. Toe clearance shall extend 25 inches (635 mm) maximum Exception: Toe clearance shall extend 19 inches (483 mm) maximum under lavatories required to be accessible by

Section 11B-213.3.4. 11B-306.2.3 Minimum required depth. Where toe clearance is required at an element as part of a clear floor space, the toe clearance shall extend 17 inches (432 mm) minimum

1. The toe clearance shall extend 19 inches (483 mm) minimum under sinks required to be accessible by Section 2. The toe clearance shall extend 19 inches (483 mm) minimum under built-in dining and work surfaces required to **11B-306.2.4 Additional clearance.** Space extending greater than 6 inches (152 mm) beyond

the available knee clearance at 9 inches (229 mm) above the finish floor or ground shall not be considered toe clearance. **11B-306.2.5 Width.** Toe clearance shall be 30 inches (762 mm) wide minimum. 11B-306.3 Knee clearance.

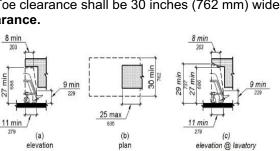


FIGURE 11B-306.3

(686 mm) above the finish floor or ground shall be considered knee clearance and shall comply with Section 11B-306.3. Exception: At lavatories required to be accessible by Section 11B-213.3.4, space between 9 inches (229 mm) and

11B-306.3.2 Maximum depth. Knee clearance shall extend 25 inches (635 mm) maximum under an element at 9 inches (229 mm) above the finish floor or ground. 11B-306.3.3 Minimum required depth. Where knee clearance is required under an element as part of a clear floor space, the knee clearance shall be 11 inches (279 mm) deep minimum at 9 inches (229 mm) above the finish floor or ground, and 8 inches (203 mm) deep minimum at 27 inches (686 mm) above the finish floor or ground.

1. At lavatories required to be accessible by Section 11B-213.3.4, the knee clearance shall be 27 inches (686 mm) high minimum above the finish floor or ground at a depth of 8 inches (203 mm) minimum increasing to 29 inches 737 mm) high minimum above the finish floor or ground at the front edge of a counter with a built-in lavatory or at the front edge of a wall-mounted lavatory fixture. minimum at 27 inches (686 mm) above the finish floor or ground.

11B-306.3.4 Clearance reduction. Between 9 inches (229 mm) and 27 inches (686 mm) above the finish floor or ground, the knee clearance shall be permitted to reduce at a rate of 1 inch (25 mm) in depth for each 6 inches (152 mm) in height. **Exception:** The knee clearance shall not be reduced at built-in dining and work surfaces required to be accessible 11B-306.3.5 Width. Knee clearance shall be 30 inches (762 mm) wide minimum.

11B-307 Protruding objects

11B-307.1 General. Protruding objects shall comply with Section 11B-307. not more than 80 inches (2032 mm) above the finish floor or ground shall protrude 4 inches (102 mm) maximum horizontally into the circulation path.

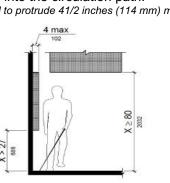


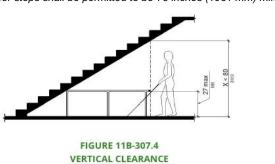
FIGURE 11B-307.2 LIMITS OF PROTRUDING OBJECTS

11B-307.3 Post-mounted objects. Free-standing objects mounted on posts or pylons shall overhang circulation paths 12 inches (305 mm) maximum when located 27 inches (686 mm) minimum and 80 inches (2032 mm) maximum above the finish floor or ground. Where a sign or other obstruction is mounted between posts or pylons and the clear distance between the posts or pylons is greater than 12 inches (305 mm), the lowest edge of such sign or 11B-304.3.2 T-Shaped space. The turning space shall be a T-shaped space within a 60 inch obstruction shall be 27 inches (686 mm) maximum or 80 inches (2032 mm) minimum above

FIGURE 11B-307.3 POST-MOUNTED PROTRUDING OBJECTS

11B-307.3.1 Edges and corners. Where signs or other objects are mounted on posts or pylons, and their bottom edges are less than 80 inches (2032 mm) above the floor or ground surface, the edges of such signs and objects shall be rounded or eased and the corners shall have a minimum radius of 1/8 inch (3.2 mm).

11B-307.4 Vertical clearance. Vertical clearance shall be 80 inches (2032 mm) high minimum. Guardrails or other barriers shall be provided where the vertical clearance is less than 80 inches (2032 mm) high. The leading edge of such guardrail or barrier shall be located 27 inches (686 mm) maximum above the finish floor or ground. Exception: Door closers and door stops shall be permitted to be 78 inches (1981 mm) minimum above the finish

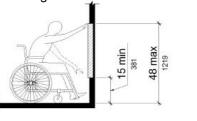


11B-307.4.1 Guy braces. Where a guy support is used within either the width of a circulation path or 24 inches (610 mm) maximum outside of a circulation path, a vertical guy brace, sidewalk guy or similar device shall be used to prevent a hazard or an overhead obstruction. **11B-307.5 Required clear width.** Protruding objects shall not reduce the clear width required for accessible routes.

11B-308 Reach ranges **11B-308.1 General.** Reach ranges shall comply with Section 11B-308. **11B-308.1.1 Electrical switches.** Controls and switches intended to be used by the

occupant of a room or area to control lighting and receptacle outlets, appliances or cooling, heating and ventilating equipment, shall comply with Section 11B-308 except the low reach shall be measured to the bottom of the outlet box and the high reach shall be measured to the top of the outlet box 11B-308.1.2 Electrical receptacle outlets. Electrical receptacle outlets on branch circuits of 30 amperes or less and communication system receptacles shall comply with Section 11B-308 except the low reach shall be measured to the bottom of the outlet box and the high

reach shall be measured to the top of the outlet box. 11B-308.2 Forward reach. **11B-308.2.1 Unobstructed.** Where a forward reach is unobstructed, the high forward reach shall be 48 inches (1219 mm) maximum and the low forward reach shall be 15 inches (381 mm) minimum above the finish floor or ground.



UNOBSTRUCTED FORWARD REACH

11B-308.2.2 Obstructed high reach. Where a high forward reach is over an obstruction, the clear floor space shall extend beneath the element for a distance not less than the required reach depth over the obstruction. The high forward reach shall be 48 inches (1219 mm) maximum where the reach depth is 20 inches (508 mm) maximum. Where the reach depth exceeds 20 inches (508 mm), the high forward reach shall be 44 inches (1118 mm) maximum and the reach depth shall be 25 inches (635 mm) maximum.

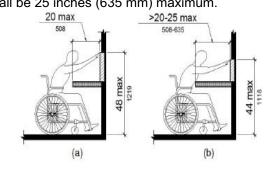


FIGURE 11B-308.2.2

OBSTRUCTED HIGH FORWARD REACH

11B-308.3 Side reach. **11B-308.3.1 Unobstructed.** Where a clear floor or ground space allows a parallel approach to an element and the side reach is unobstructed, the high side reach shall be 48 inches (1219 mm) maximum and the low side reach shall be 15 inches (381 mm) minimum above the finish floor or ground.

1. An obstruction shall be permitted between the clear floor or ground space and the element where the depth of the obstruction is 10 inches (254 mm) maximum. 2. Operable parts of fuel dispensers shall be permitted to be 54 inches (1372 mm) maximum measured from the surface of the vehicular way where fuel dispensers are installed on existing curbs

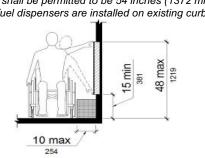
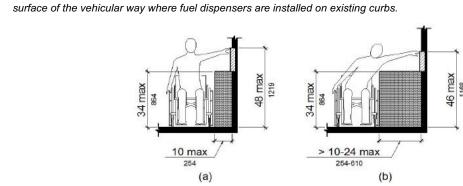


FIGURE 11B-308.3.1 UNOBSTRUCTED SIDE REACH

11B-308.3.2 Obstructed high reach. Where a clear floor or ground space allows a parallel approach to an element and the high side reach is over an obstruction, the height of the obstruction shall be 34 inches (864 mm) maximum and the depth of the obstruction shall be 24 inches (610 mm) maximum. The high side reach shall be 48 inches (1219 mm) maximum for a reach depth of 10 inches (254 mm) maximum. Where the reach depth exceeds 10 inches (254 mm), the high side reach shall be 46 inches (1168 mm) maximum for a reach depth of 24 inches (610 mm) maximum.

1. The top of washing machines and clothes dryers shall be permitted to be 36 inches (914 mm) maximum above the 2. Operable parts of fuel dispensers shall be permitted to be 54 inches (1372 mm) maximum measured from the



OBSTRUCTED HIGH SIDE REACH 11B-308.4 Suggested reach ranges for children. Where building elements such as coat hooks, lockers, or operable parts are designed for use primarily by children, the suggested dimensions of Table 11B-308.4 shall be permitted. These dimensions apply to either forward

SUGGESTE		1B-308.4 NS FOR CHILE	DREN'S USE
SUGGEST		ANGES FOR	CHILDREN
Forward or Side Reach	Ages 3 and 4	Ages 5 through 8	Ages 9 through 12
High (maximum)	36 inches (914 mm)	40 inches (1016 mm)	44 inches (1118 mm)
Low	20 inches	18 inches	16 inches

(minimum) (508 mm) (457 mm) (406 mm)

11B-309 Operable parts

11B-309.1 General. Operable parts shall comply with Section 11B-309. 11B-309.2 Clear floor space. A clear floor or ground space complying with Section 11B-305 shall be provided. **11B-309.3 Height.** Operable parts shall be placed within one or more of the reach ranges specified in Section 11B-308. 11B-309.4 Operation. Operable parts shall be operable with one hand and shall not require tight grasping, pinching, or twisting of the wrist. The force required to activate operable parts shall be 5 pounds (22.2 N) maximum. Exception: Gas pump nozzles and electric vehicle connectors shall not be required to provide operable parts that have an activating force of 5 pounds (22.2 N) maximum.

DIVISION 4 ACCESSIBLE ROUTES

11B-401 General 11B-401.1 Scope. The provisions of Division 4 shall apply where required by Division 2 or where referenced by a requirement in this chapter. 11B-402 Accessible routes

11B-402.1 General. Accessible routes shall comply with 11B-402. **11B-402.2 Components.** Accessible routes shall consist of one or more of the following components: walking surfaces with a running slope not steeper than 1:20, doorways, ramps, curb ramps excluding the flared sides, elevators, and platform lifts. All components of an accessible route shall comply with the applicable requirements of Division 4.

11B-403 Walking surfaces 11B-403.1 General. Walking surfaces that are a part of an accessible route shall comply with

door-opening widths and door swings.

11B-403.2 Floor or ground surface. Floor or ground surfaces shall comply with Section 11B-403.3 Slope. The running slope of walking surfaces shall not be steeper than 1:20. The cross slope of walking surfaces shall not be steeper than 1:48. Exception: The running slope of sidewalks shall not exceed the general grade established for the adjacent street or 11B-403.4 Changes in level. Changes in level shall comply with Section 11B-303.

11B-403.5 Clearances. Walking surfaces shall provide clearances complying with Section Exception: Within employee work areas, clearances on common use circulation paths shall be permitted to be decreased by work area equipment provided that the decrease is essential to the function of the work being **11B-403.5.1 Clear width.** Except as provided in Sections 11B-403.5.2 and 11B-403.5.3, the clear width of walking surfaces shall be 36 inches (914 mm) minimum.

1. The clear width shall be permitted to be reduced to 32 inches (813 mm) minimum for a length of 24 inches (610 mm) maximum provided that reduced width segments are separated by segments that are 48 inches (1219 mm) long minimum and 36 inches (914 mm) wide minimum 2. The clear width for walking surfaces in corridors serving an occupant load of 10 or more shall be 44 inches (1118 3. The clear width for sidewalks and walks shall be 48 inches (1219 mm) minimum. When, because of right-of-way restrictions, natural barriers or other existing conditions, the enforcing agency determines that compliance with the 48-inch (1219 mm) clear sidewalk width would create an unreasonable hardship, the clear width may be reduced to 4. The clear width for aisles shall be 36 inches (914 mm) minimum if serving elements on only one side, and 44 inches (1118 mm) minimum if serving elements on both sides. 5. The clear width for accessible routes to accessible toilet compartments shall be 44 inches (1118 mm) except for

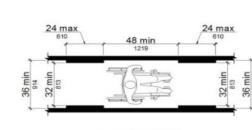
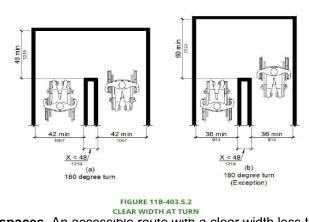


FIGURE 11B-403.5.1 CLEAR WIDTH OF AN ACCESSIBLE ROUTE 11B-403.5.2 Clear width at turn. Where the accessible route makes a 180 degree turn around an element which is less than 48 inches (1219 mm) wide, clear width shall be 42 inches (1067 mm) minimum approaching the turn, 48 inches (1219 mm) minimum at the turn and 42 inches (1067 mm) minimum leaving the turn.



Exception: Where the clear width at the turn is 60 inches (1524 mm) minimum compliance with Section 11B-403.5.2

11B-403.5.3 Passing spaces. An accessible route with a clear width less than 60 inches (1524 mm) shall provide passing spaces at intervals of 200 feet (60,960 mm) maximum. Passing spaces shall be either: a space 60 inches (1524 mm) minimum by 60 inches (1524 mm) minimum; or, an intersection of two walking surfaces providing a Tshaped space complying with Section 11B-304.3.2 where the base and arms of the T-shaped space extend 48 inches (1219 mm) minimum beyond the intersection. 11B-403.6 Handrails. Where handrails are provided along walking surfaces with running slopes not steeper than 1:20 they shall comply with Section 11B-505. 11B-403.7 Continuous gradient. All walks with continuous gradients shall have resting

areas, 60 inches (1524 mm) in length, at intervals of 400 feet (121,920 mm) maximum. The

resting area shall be at least as wide as the walk. The slope of the resting area in all

11B-404 Doors, doorways, and gates **11B-404.1 General.** Doors, doorways, and gates that are part of an accessible route shall comply with Section 11B-404.

directions shall be 1:48 maximum.

11B-404.3.4 through 11B- 404.3.7.

shall not be required.

1. Doors, doorways, and gates designed to be operated only by security personnel shall not be required to comply with Sections 11B-404.2.7, 11B-404.2.8, 11B-404.2.9, 11B-404.3.2 and 11B-404.3.4 through 11B-404.3.7. A sign visible from the approach side complying with Section 11B-703.5 shall be posted stating "Entry restricted and controlled by security personnel". 2. At detention and correctional facilities, doors, doorways, and gates designed to be operated only by security personnel shall not be required to comply with Sections 11B-404.2.7, 11B-404.2.8, 11B-404.2.9, 11B-404.3.2 and

11B-404.2 Manual doors, doorways, and manual gates. Manual doors and doorways and manual gates intended for user passage shall comply with Section 11B-404.2. 11B-404.2.1 Revolving doors, gates, and turnstiles. Revolving doors, revolving gates, and turnstiles shall not be part of an accessible route. **11B-404.2.2 Double-leaf doors and gates.** At least one of the active leaves of doorways with two leaves shall comply with Sections 11B-404.2.3 and 11B-404.2.4. **11B-404.2.3 Clear width.** Door openings shall provide a clear width of 32 inches (813 mm) minimum. Clear openings of doorways with swinging doors shall be measured between the face of the door and the stop, with the door open 90 degrees. Openings more than 24 inches (610 mm) deep shall provide a clear opening of 36 inches (914 mm) minimum. There shall be no projections into the required clear opening width lower than 34 inches (864 mm) above the finish floor or ground. Projections into the clear opening width between 34 inches (864 mm) and 80 inches (2032 mm) above the finish floor or ground shall not exceed 4 inches (102

1. In alterations, a projection of 5/8 inch (15.9 mm) maximum into the required clear width shall be permitted for the 2. Door closers and door stops shall be permitted to be 78 inches (1981 mm) minimum above the finish floor or

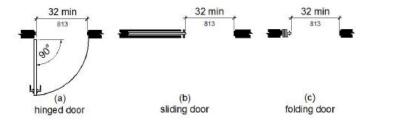
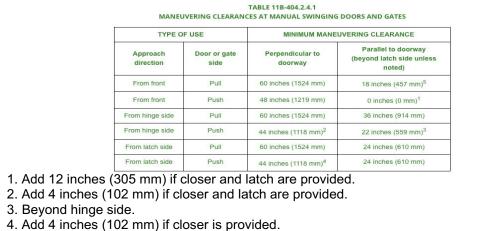


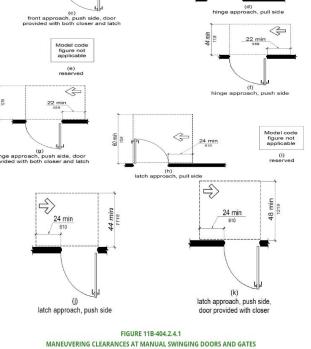
FIGURE 11B-404.2.3 CLEAR WIDTH OF DOORWAYS

11B-404.2.4 Maneuvering clearances. Minimum maneuvering clearances at doors and gates shall comply with Section 11B-404.2.4. Maneuvering clearances shall extend the full width of the doorway and the required latch side or hinge side clearance.

11B-404.2.4.1 Swinging doors and gates. Swinging doors and gates shall have maneuvering clearances complying with Table 11B-404.2.4.1.



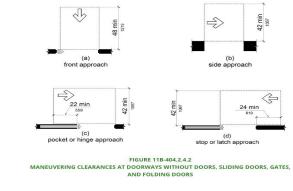
5. Add 6 inches (152 mm) at exterior side of exterior doors. -36 min Model code figure not applicable (e) reserved



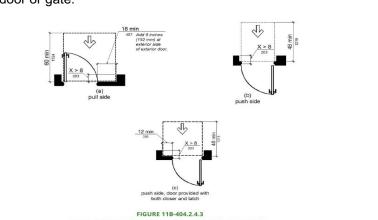
11B-404.2.4.2 Doorways without doors or gates, sliding doors, and folding doors. Doorways less than 36 inches (914 mm) wide without doors or gates, sliding doors, or folding doors shall have maneuvering clearances complying with Table 11B-404.2.4.2. TABLE 11B-404.2.4.2

	MINIMUM MANEUVERING CLEARANCE			
Approach direction	Perpendicular to doorway	Parallel to doorway (beyond stop/latch side unless noted)		
From front	48 inches (1219 mm)	0 inches (0 mm)		
From side ¹	42 inches (1067 mm)	0 inches (0 mm)		
From pocket/hinge side	42 inches (1067 mm)	22 inches (559 mm) ²		
From stop/latch side	42 inches (1067 mm)	24 inches (610 mm)		

1. Doorway with no door only.



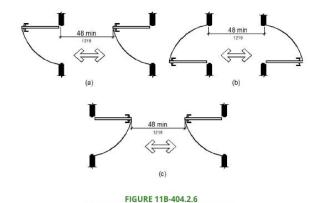
11B-404.2.4.3 Recessed doors and gates. Maneuvering clearances for forward approach shall be provided when any obstruction within 18 inches (457 mm) of the latch side at an interior doorway, or within 24 inches (610 mm) of the latch side of an exterior doorway, projects more than 8 inches (203 mm) beyond the face of the door, measured perpendicular to the face of the door or gate.



11B-404.2.4.4 Floor or ground surface. Floor or ground surface within required maneuvering clearances shall comply with Section 11B-302. Changes in level are not permitted.

1. Slopes not steeper than 1:48 shall be permitted. 2. Changes in level at thresholds complying with Section 11B-404.2.5 shall be permitted. **11B-404.2.5 Thresholds.** Thresholds, if provided at doorways, shall be 1/2 inch (12.7 mm) high maximum. Raised thresholds and changes in level at doorways shall comply with Sections 11B-302 and 11B-303. Exception: Reserved.

11B-404.2.6 Doors in series and gates in series. The distance between two hinged or pivoted doors in series and gates in series shall be 48 inches (1219 mm) minimum plus the width of doors or gates swinging into the space.



11B-404.2.7 Door and gate hardware. Handles, pulls, latches, locks, and other operable parts on doors and gates shall comply with Section 11B-309.4. Operable parts of such hardware shall be 34 inches (864 mm) minimum and 44 inches (1118 mm) maximum above the finish floor or ground. Where sliding doors are in the fully open position, operating hardware shall be exposed and usable from both sides.

DOORS IN SERIES AND GATES IN SERIES

1. Existing locks shall be permitted in any location at existing glazed doors without stiles, existing overhead rolling doors or grilles, and similar existing doors or grilles that are designed with locks that are activated only at the top or 2. Access gates in barrier walls and fences protecting pools, spas, and hot tubs shall be permitted to have operable parts of the release of latch on selflatching devices at 54 inches (1372 mm) maximum above the finish floor or ground provided the self-latching devices are not also self-locking devices and operated by means of a key,

11B-404.2.8 Closing speed. Door and gate closing speed shall comply with Section **11B-404.2.8.1 Door closers and gate closers.** Door closers and gate closers shall be adjusted so that from an open position of 90 degrees, the time required to move the door to a

electronic opener, or integral combination lock.

position of 12 degrees from the latch is 5 seconds minimum. 11B-404.2.8.2 Spring hinges. Door and gate spring hinges shall be adjusted so that from the open position of 70 degrees, the door or gate shall move to the closed position in 1.5 seconds minimum. **11B-404.2.9 Door and gate opening force.** The force for pushing or pulling open a door or gate shall be as follows:

3. Required fire doors: the minimum opening force allowable by the appropriate administrative authority, not to exceed 15 pounds (66.7 N). 4. Exterior hinged doors: 5 pounds (22.2 N) maximum. These forces do not apply to the force required to retract latch bolts or disengage other devices that hold the door or gate in a closed position **Exceptions:** When, at a single location, one of every eight exterior door leafs, or fraction of eight, is a powered door, other exterior doors at the same location, serving the same interior space, may have a maximum opening force of 8.5 pounds (37.8 N). The powered leaf(s) shall be located closest to the accessible route. a. Powered doors shall comply with Section 11B- 404.3. Powered doors shall be fully automatic doors complying with

Interior hinged doors and gates: 5 pounds (22.2 N) maximum.

2. Sliding or folding doors: 5 pounds (22.2 N) maximum.

b. Powered doors serving a building or facility with an occupancy of 150 or more shall be provided with a back-up battery or back-up generator. The back-up power source shall be able to cycle the door a minimum of 100 cycles. c. Powered doors shall be controlled on both the interior and exterior sides of the doors by sensing devices, push plates, vertical actuation bars or other similar operating devices complying with Sections 11B-304, 11B-305 and At each location where push plates are provided there shall be two push plates; the centerline of one push plate shall be 7 inches (178 mm) minimum and 8 inches (203 mm) maximum above the floor or ground surface and the centerline of the second push plate shall be 30 inches (762 mm) minimum and 44 inches (1118 mm) maximum above the floor or ground surface. Each push plate shall be a minimum of 4 inches (102 mm) diameter or a minimum of 4 inches by 4 inches (102 mm by 102 mm) square and shall display the International Symbol of Accessibility complying with Section 11B-703.7. At each location where vertical actuation bars are provided the operable portion shall be located so the bottom is 5 inches (127 mm) maximum above the floor or ground surface and the top is 35 inches (889 mm) minimum above the

Builders Hardware Manufacturers' Association (BHMA) A156.10 or low energy operated doors complying with BHMA

floor or ground surface. The operable portion of each vertical actuation bar shall be a minimum of 2 inches (51 mm) wide and shall display the International Symbol of Accessibility complying with Section 11B-703.7. Where push plates, vertical actuation bars or other similar operating devices are provided, they shall be placed in a conspicuous location. A level and clear floor or ground space for forward or parallel approach complying with Section 11B-305 shall be provided, centered on the operating device. Doors shall not swing into the required clear floor or d. Signs identifying the accessible entrance required by Section 11B-216.6 shall be placed on, or immediately adjacent to, each powered door. Signs shall be provided in compliance with BHMA A156.10 or BHMA A156.19, as applicable. e. In addition to the requirements of Item d, where a powered door is provided in buildings or facilities containing assembly occupancies of 300 or more, a sign displaying the International Symbol of Accessibility measuring 6 inches by 6 inches (152 mm by 152 mm), complying with

Section 11B-703.7, shall be provided above the door on both the interior and exterior sides of each powered door. **11B-404.2.10 Door and gate surfaces.** Swinging door and gate surfaces within 10 inches (254 mm) of the finish floor or ground measured vertically shall have a smooth surface on the push side extending the full width of the door or gate. Parts creating horizontal or vertical ioints in these surfaces shall be within 1/16 inch (1.6 mm) of the same plane as the other and be free of sharp or abrasive edges. Cavities created by added kick plates shall be capped.

1. Sliding doors shall not be required to comply with Section 11B-404.2.10. 2. Tempered glass doors without stiles and having a bottom rail or shoe with the top leading edge tapered at 60 degrees minimum from the horizontal shall not be required to meet the 10 inch (254 mm) bottom smooth surface 3. Doors and gates that do not extend to within 10 inches (254 mm) of the finish floor or ground shall not be required to comply with Section 11B- 404.2.10.

11B-404.2.11 Vision lights. Doors, gates, and side lights adjacent to doors or gates, containing one or more glazing panels that permit viewing through the panels shall have the bottom of at least one glazed panel located 43 inches (1092 mm) maximum above the finish floor. Exception: Glazing panels with the lowest part more than 66 inches (1676 mm) from the finish floor or ground shall not be required to comply with Section 11B-404.2.11. 11B-404.3 Automatic and power-assisted doors and gates. Automatic doors and automatic gates shall comply with Section 11B-404.3. Full-powered automatic doors shall comply with ANSI/BHMA A156.10. Low-energy and power-assisted doors shall comply with

11B-404.3.1 Clear width. Doorways shall provide a clear opening of 32 inches (813 mm) minimum in power-on and power-off mode. The minimum clear width for automatic door systems in a doorway shall provide a clear, unobstructed opening of 32 inches (813 mm) with one leaf positioned at an angle of 90 degrees from its closed position. **11B-404.3.2 Maneuvering clearance.** Clearances at power-assisted doors and gates shall comply with Section 11B-404.2.4. Clearances at automatic doors and gates without standby power and serving an accessible means of egress shall comply with Section

Exception: Where automatic doors and gates remain open in the power-off condition, compliance with Section 11B-404.2.4 shall not be required. 11B-404.3.3 Thresholds. Thresholds and changes in level at doorways shall comply with Section 11B-404.2.5. 11B-404.3.4 Doors in series and gates in series. Doors in series and gates in series shall comply with Section 11B-404.2.6. **11B-404.3.5 Controls.** Manually operated controls shall comply with Section 11B-309. The clear floor space adjacent to the control shall be located beyond the arc of the door swing. **11B-404.3.6 Break out opening.** Where doors and gates without standby power are a part of

a means of egress, the clear break out opening at swinging or sliding doors and gates shall

Exception: Where manual swinging doors and gates comply with Section 11B-404.2 and serve the same means of

11B-404.3.7 Revolving doors, revolving gates, and turnstiles. Revolving doors, revolving

gates, and turnstiles shall not be part of an accessible route.

Exception: Reserved.

4. Reserved.

11B-404.2.4.

11B-405.1 General. Ramps on accessible routes shall comply with Section 11B-405. Exception: In assembly areas, aisle ramps adjacent to seating and not serving elements required to be on an accessible route shall not be required to comply with Section 11B-405. **11B-405.2 Slope.** Ramp runs shall have a running slope not steeper than 1:12.

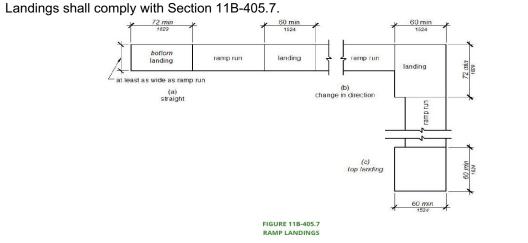
be 32 inches (813 mm) minimum when operated in emergency mode.

egress compliance with Section 11B-404.3.6 shall not be required.

11B-405.3 Cross slope. Cross slope of ramp runs shall not be steeper than 1:48. 11B-405.4 Floor or ground surfaces. Floor or ground surfaces of ramp runs shall comply with Section 11B-302. Changes in level other than the running slope and cross slope are not permitted on ramp runs. **11B-405.5 Clear width.** The clear width of a ramp run shall be 48 inches (1219 mm) minimum

1. Within employee work areas, the required clear width of ramps that are a part of common use circulation paths

2. Handrails may project into the required clear width of the ramp at each side 31/2 inches (89 mm) maximum at the 3. The clear width of ramps in residential uses serving an occupant load of fifty or less shall be 36 inches (914 mm) minimum between handrails **11B-405.6 Rise.** The rise for any ramp run shall be 30 inches (762 mm) maximum. 11B-405.7 Landings. Ramps shall have landings at the top and the bottom of each ramp run.



11B-405.7.1 Slope. Landings shall comply with Section 11B-302. Changes in level are not Exception: Slopes not steeper than 1:48 shall be permitted.

11B-405.7.2 Width. The landing clear width shall be at least as wide as the widest ramp run leading to the landing. 11B-405.7.2.1: Top landings shall be 60 inches (1524 mm) wide minimum 11B-405.7.3 Length. The landing clear length shall be 60 inches (1524 mm) long minimum. **11B-405.7.3.1:** Bottom landings shall extend 72 inches (1829 mm) minimum in the direction 11B-405.7.4 Change in direction. Ramps that change direction between runs at landings shall have a clear landing 60 inches (1525 mm) minimum by 72 inches (1829 mm) minimum in the direction of downward travel from the upper ramp run.

11B-405.7.5 Doorways. Where doorways are located adjacent to a ramp landing, maneuvering clearances required by Sections 11B-404.2.4 and 11B-404.3.2 shall be permitted to overlap the required landing area. Doors, when fully open, shall not reduce the required ramp landing width by more than 3 inches (76 mm). Doors, in any position, shall not reduce the minimum dimension of the ramp landing to less than 42 inches (1067 mm). 11B-405.8 Handrails. Ramp runs shall have handrails complying with Section 11B-505.

3. Curb ramps do not require handrails. 4. At door landings, handrails are not required on ramp runs less than 6 inches (152 mm) in rise or 72 inches (1829 11B-405.9 Edge protection. Edge protection complying with Section 11B-405.9.2 shall be

1. Edge protection shall not be required on ramps that are not required to have handrails and have sides complying with Section 11B-406.2.2. 2. Edge protection shall not be required on the sides of ramp landings serving an adjoining ramp run or stairway. 3. Edge protection shall not be required on the sides of ramp landings having a vertical drop-off of 1/2 inch (12.7 mm) maximum within 10 inches (254 mm) horizontally of the minimum landing area specified in Section 11B-405.7. 11B-405.9.1 Reserved. 11B-405.9.2 Curb or barrier. A curb or barrier shall be provided that prevents the passage of a 4-inch (102 mm) diameter sphere, where any portion of the sphere is within 4 inches (102

provided on each side of ramp runs and at each side of ramp landings.

mm) of the finish floor or ground surface. To prevent wheel entrapment, the curb or barrier shall provide a continuous and uninterrupted barrier along the length of the ramp.

> FIGURE 11B-405.9.2 CURB OR BARRIER EDGE PROTECTION

11B-405.10 Wet conditions. Landings subject to wet conditions shall be designed to prevent the accumulation of water.

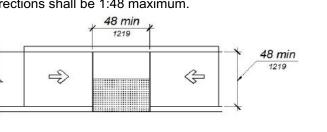
11B-406 Curb ramps, blended transitions and islands 11B-406.1 General. Curb ramps, blended transitions and islands on accessible routes shall comply with Section 11B- 406. Curb ramps may be perpendicular, parallel, or a combination of perpendicular and parallel.

11B-406.1.1 Perpendicular curb ramps. Perpendicular curb ramps shall comply with **11B-406.1.2 Parallel curb ramps.** Parallel curb ramps shall comply with Section 11B-406.3. 11B-406.1.3 Blended transitions. Blended transitions shall comply with Section 11B-406.4.

11B-406.1.4 Islands. Islands shall comply with Section 11B-406.6. **11B-406.2 Perpendicular curb ramps.** Perpendicular curb ramps shall comply with Sections **11B-406.2.1 Slope.** Ramp runs shall have a running slope not steeper than 1:12.

11B-406.3 Parallel curb ramps. Parallel curb ramps shall comply with Sections 11B-406.3 **11B-406.3.1 Slope.** The running slope of the curb ramp segments shall be in-line with the direction of sidewalk travel. Ramp runs shall have a running slope not steeper than 1:12. 11B-406.3.2 Turning space. A turning space 48 inches (1219 mm) minimum by 48 inches (1219 mm) minimum shall be provided at the bottom of the curb ramp. The slope of the turning space in all directions shall be 1:48 maximum.

11B-406.2.2 Sides of curb ramps. Where provided, curb ramp flares shall not be steeper

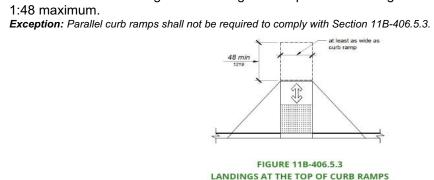


PARALLEL CURB RAMPS

11B-406.4 Blended transitions. Blended transitions shall comply with Sections 11B-406.4 and 11B-406.5. **11B-406.4.1 Slope.** Blended transitions shall have a running slope not steeper than 1:20. **11B-406.5 Common requirements.** Curb ramps and blended transitions shall comply with 11B-406.5.1 Location. Curb ramps and the flared sides of curb ramps shall be located so that they do not project into vehicular traffic lanes, parking spaces, or parking access aisles.

Exception: Diagonal curb ramps shall comply with Section 11B-406.5.9. 11B-406.5.2 Width. The clear width of curb ramp runs (excluding any flared sides), blended transitions, and turning spaces shall be 48 inches (1219 mm) minimum. 11B-406.5.3 Landings. Landings shall be provided at the tops of curb ramps and blended transitions. The landing clear length shall be 48 inches (1219 mm) minimum. The landing clear width shall be at least as wide as the curb ramp, excluding any flared sides, or the blended transition leading to the landing. The slope of the landing in all directions shall be

Curb ramps at marked crossings shall be wholly contained within the markings, excluding any



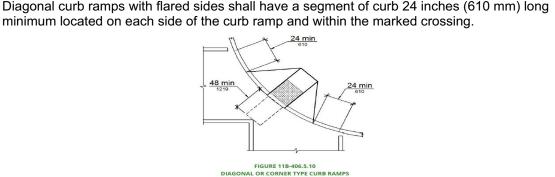
11B-406.5.4 Floor or ground surfaces. Floor or ground surfaces of curb ramps and blended transitions shall comply with Section 11B-405.4. 11B-406.5.5 Wet conditions. Curb ramps and blended transitions shall comply with Section 11B-406.5.6 Grade breaks. Grade breaks at the top and bottom of curb ramp runs shall be

perpendicular to the direction of the ramp run. Grade breaks shall not be permitted on the surface of ramp runs and turning spaces. Surface slopes that meet at grade breaks shall be 11B-406.5.7 Cross slope. The cross slope of curb ramps and blended transitions shall be 11B-406.5.8 Counter slope. Counter slopes of adjoining gutters and road surfaces

immediately adjacent to and within 24 inches (610 mm) of the curb ramp shall not be steeper

than 1:20. The adjacent surfaces at transitions at curb ramps to walks, gutters, and streets

OUNTER SLOPE OF SURFACES ADJACENT TO CURB RAMP **11B-406.5.9 Clear space at diagonal curb ramps**. The bottom of diagonal curb ramps shall have a clear space 48 inches (1219 mm) minimum outside active traffic lanes of the roadway. Diagonal curb ramps provided at marked crossings shall provide the 48 inches (1219 mm) minimum clear space within the markings. **11B-406.5.10 Diagonal curb ramps.** Diagonal or corner type curb ramps with returned curbs or other well-defined edges shall have the edges parallel to the direction of pedestrian flow.

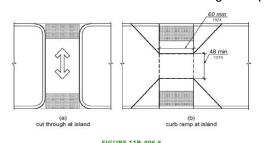


11B-406.5.11 Reserved. 11B-406.5.12 Detectable warnings.

shall be at the same level.

1:48 maximum.

11B-406.6 Islands. Raised islands in crossings shall be cut through level with the street or have curb ramps at both sides. The clear width of the accessible route at islands shall be 60 inches (1524 mm) wide minimum. Where curb ramps are provided, they shall comply with Section 11B-406. Landings complying with Section 11B-406.5.3 and the accessible route shall be permitted to overlap. Islands shall have detectable warnings complying with Section



11B-407.1 General. Elevators shall comply with Section 11B-407 and with ASME A17.1 They shall be passenger elevators as classified by ASME A17.1. Elevator operation shall be

11B·407.1.1 Combined passenger and freight elevators. When the only elevators provided for use by the public and employees are combination passenger and freight elevators, they shall comply with Section 11B-407 and with ASME A17.1. 11B-407.2 Elevator landing requirements. Elevator landings shall comply with Section **11B-407.2.1 Call controls.** Where elevator call buttons or keypads are provided, they shall

comply with Sections 11B-407.2.1 and 11B-309.4.

Exception: Reserved **11B-407.2.1.1 Height.** Call buttons and keypads shall be located within one of the reach ranges specified in Section 11B-308, measured to the centerline of the highest operable part. **11B-407.2.1.2 Size and shape.** Call buttons shall have square shoulders, be 3/4 inch (19.1 mm) minimum in the smallest dimension and shall be raised 1/8 inch (3.2 mm) plus or minus 1/32 inch (0.8 mm) above the surrounding surface. The buttons shall be activated by a mechanical motion that is detectable.



PROPOSED EXTERIOR **IMPROVEMENTS**

37-45 Calle Laureles Street 2946-48 De La Vina Street

JOB NUMBER

MILESTONES / SUBMITTALS

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DATE DESCRIPTION ABR SUBMITTAL 4/29/20

△ REVISIONS No. DESCRIPTION

ACCESSIBILITY NOTES 11B PUBLIC **ACCOMMODATIONS**

DATE: 4/30/20 Drawing Scale

(SCALE NOTED IS FOR 30x42 FULL-SIZE DRAWINGS)

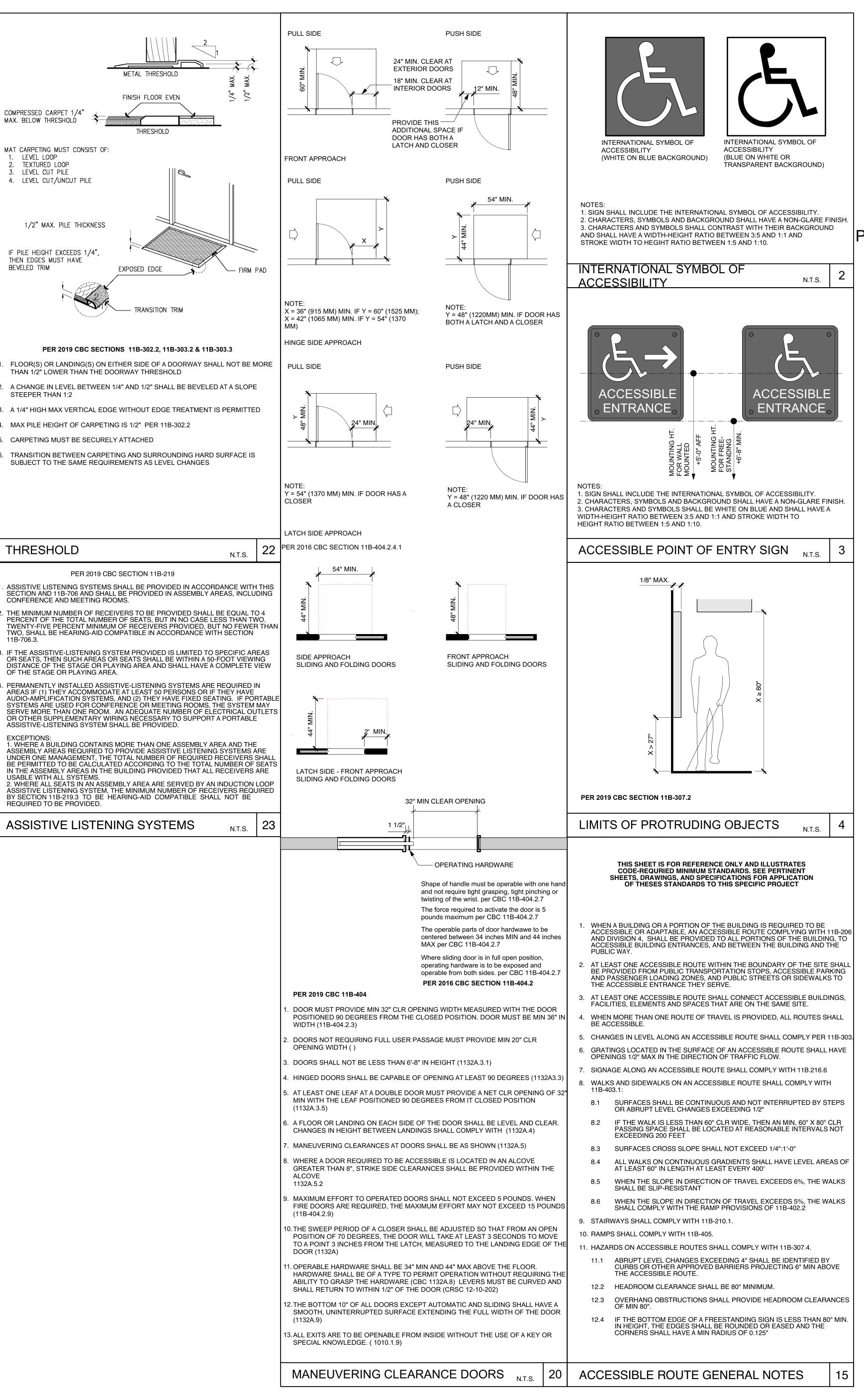


(1524 mm) square minimum with arms and base 36 inches (914 mm) wide minimum. Each the finish floor or ground.

11B-304.4 Door swing. Doors shall be permitted to swing into turning spaces

Exception: Reserved







PROPOSED EXTERIOR IMPROVEMENTS

37-45 Calle Laureles Street 2946-48 De La Vina Street

R SUBMITTA

IOD NII IMDED

PIC PA PM TEAM
MK TH TH KM

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DATE

4/29/20

DESCRIPTION
ABR SUBMITTAL

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ABIT COBINITIAL

No. DESCRIPTION

ACCESSIBILTY 11B PUBLIC

ACCOMMODATIONS

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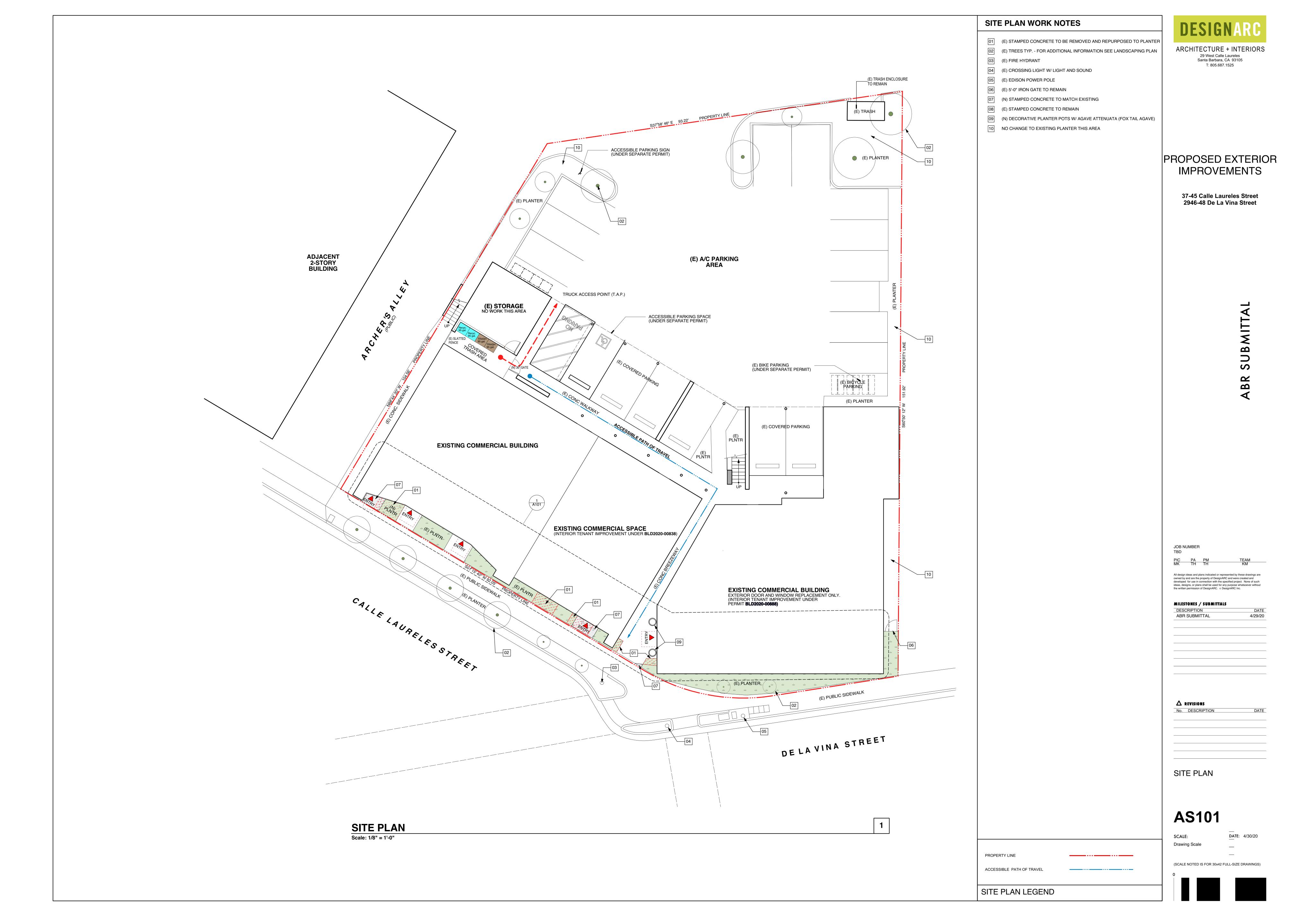
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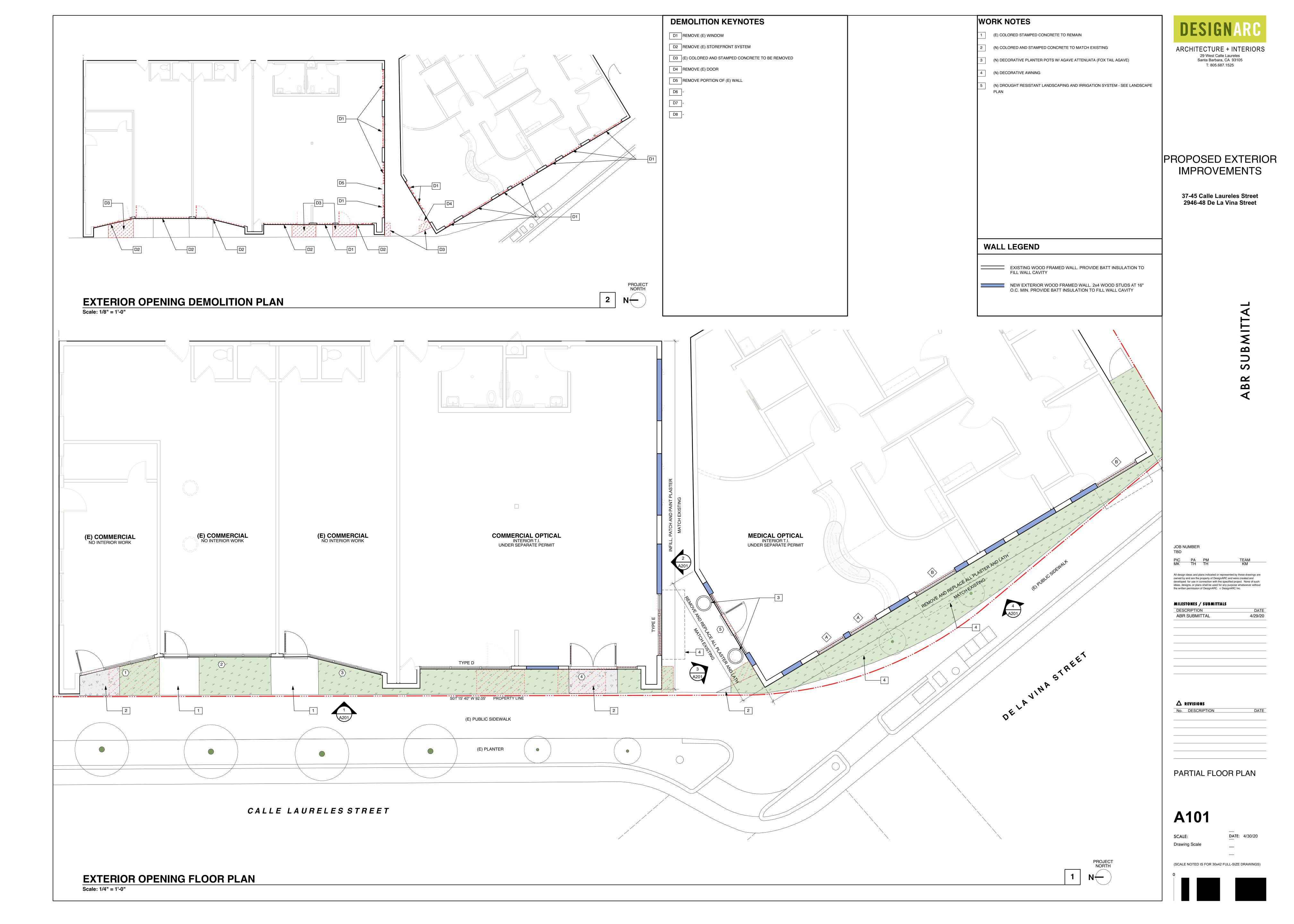
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Drawing Scale

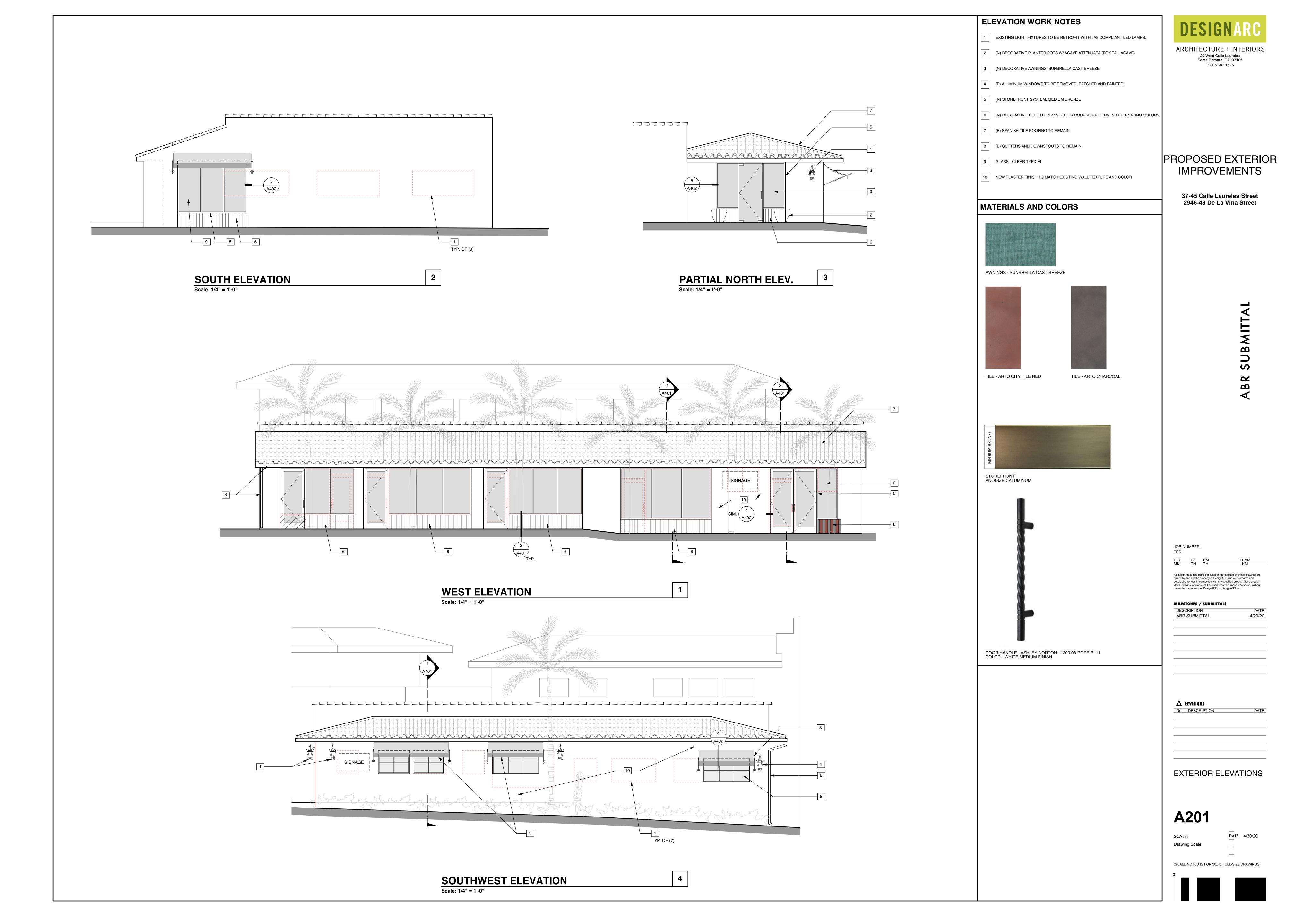
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DATE: 4/30/20

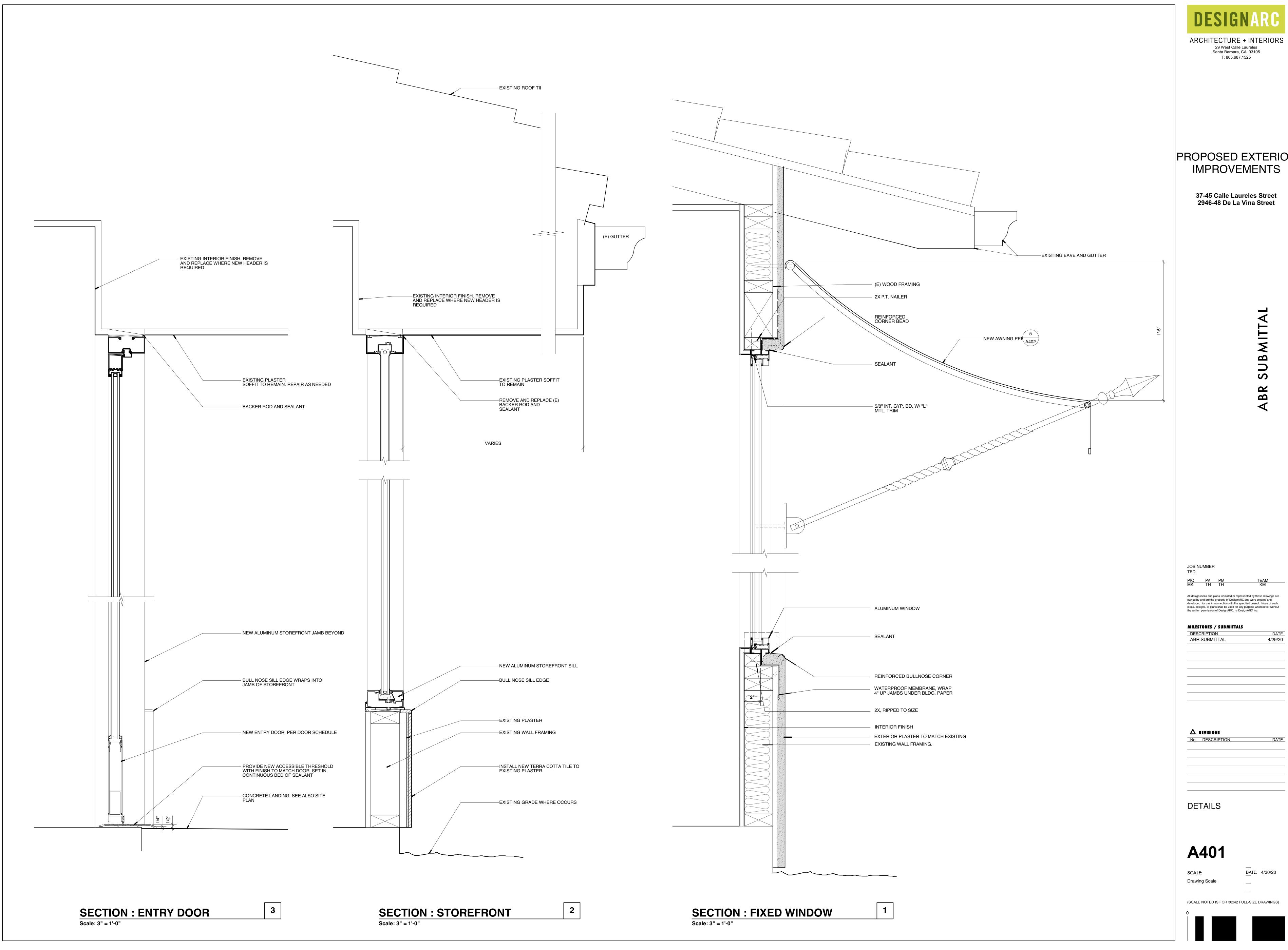














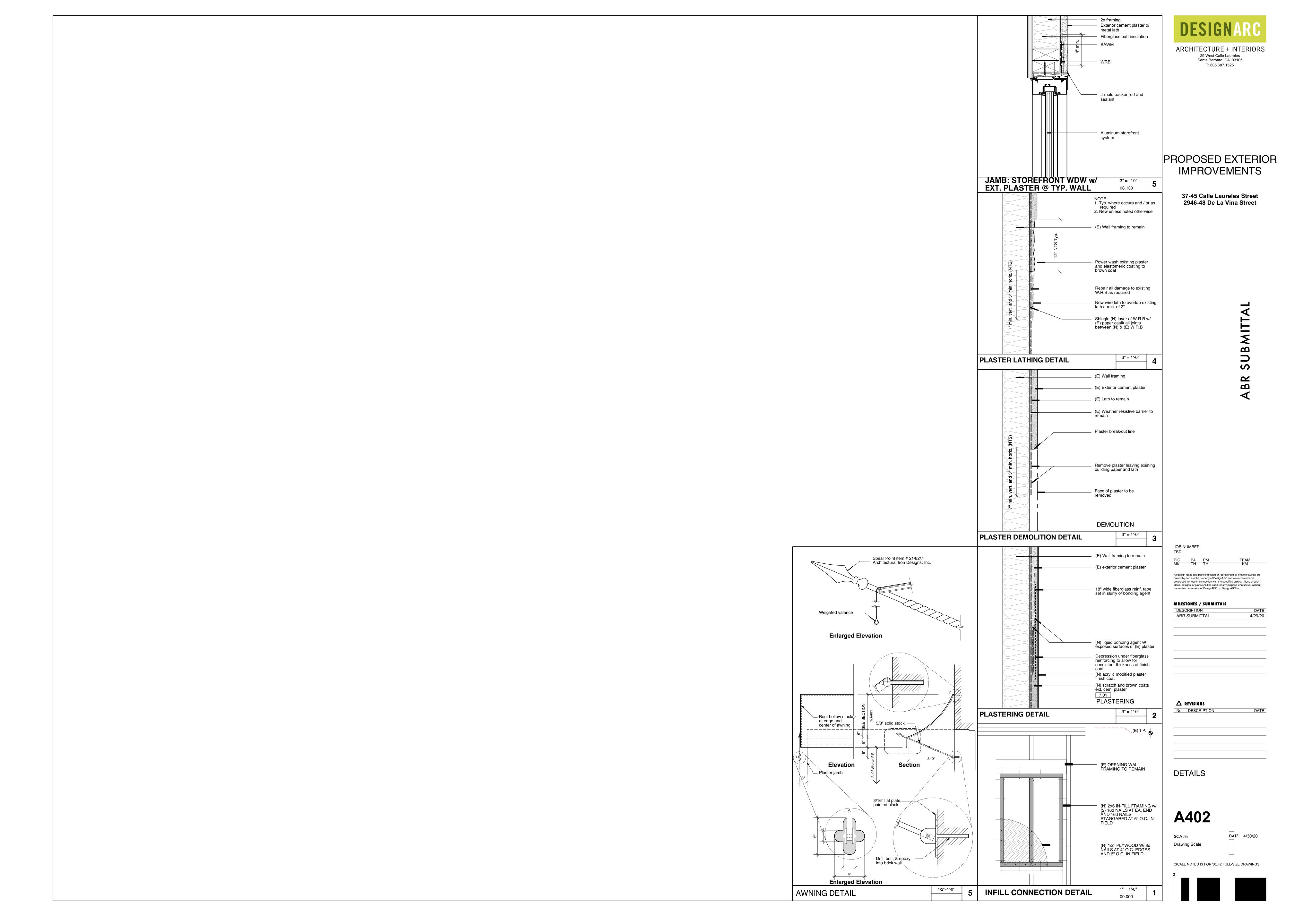
PROPOSED EXTERIOR

37-45 Calle Laureles Street

All design ideas and plans indicated or represented by these drawings are

DATE: 4/30/20









NOTE: PLANT LIST PLANT QUANTITIES FOR CONVENIENCE OF CONTRACTOR. PLAN SHALL PREVAIL. Common Name FOXTAIL AGAVE TALL YELLOW KANGAROO PAW CORDYLINE AUSTRALIS 'RED STAR' RED CORDYLINE DIANELLA CAERULEA 'CASSA BLUE' BLUE FLAX LILY VINE AND GROUND COVERS: @l2" o.c.

PLANT NOTES

- . CONTRACTOR TO BE RESPONSIBLE FOR COORDINATION WITH OWNER FOR LOCATION OF UNDERGROUND UTILITIES.
- 2. PLANT LIST IS FOR CONVENIENCE OF CONTRACTOR. PLAN IS TO PREVAIL AND LANDSCAPE ARCHITECT AND OWNER TO MAKE FINAL ADJUSTMENTS AS NECESSARY.
- 3. CONTRACTOR TO BE RESPONSIBLE FOR FULL IRRIGATION COVERAGE OF ALL PLANTED AREA.
- 4. IRRIGATION TO BE COORDINATED WITH PLANTING PLAN.
- 5. ALL PLANTER AREAS SHALL BE AMENDED WITH 4 CU. YDS. OF FOREST HUMUS MULCH AND 150 LBS. OF GRO-POWER PLUS, PER 1,000 SQ. FT. OF PLANTED AREA. PLANTER MIX TO BE 50% NATIVE MIX SOIL AND 50% PLANTER MIX ABOVE FOR ALL BACK FILL OF NEW PLANTS.
- 6. PLANT MATERIAL MAY BE SUBJECT TO CHANGE AS PER OWNER OR LANDSCAPE ARCHITECTS DISCRETION.
- 7. ANY CLARIFICATION OR QUESTIONS ON PLANS, SPECIFICATIONS AND DETAILS SHOULD BE BROUGHT TO THE ATTENTION OF THE LANDSCAPE ARCHITECT IMMEDIATELY BEFORE PROCEEDING WITH WORK.
- 8. ALL PLANTER AREAS TO BE TOP DRESSED WITH SHREDDED CEDAR/ REDWOOD MULCH AT A MINIMUM DEPTH OF 3".
- 9. ALL TREES SHALL BE PLANTED IN DEEP ROOT BOXES. (TYP.) IF WITHIN 6FT. OF WALL, WALK, PATIO, PARKING
- IO. ALL PLANTING TO HAVE GOPHER BASKETS FOR PROTECTION.

IRRIGATION NOTES:

SCALE: 1/8" = 1'-0"

- CONTRACTOR TO BE RESPONSIBLE FOR COORDINATION WITH OWNER ON LOCATION OF EXISTING UNDERGROUND UTILITY AND IRRIGATION LOCATIONS.
- 2. CONTRACTOR TO BE RESPONSIBLE FOR FULL IRRIGATION COVERAGE OF
- ALL PLANTED AREAS. (LAWN, TREES, SHRUBS, AND GROUND COVER.) IRRIGATION PLAN TO BE COORDINATED WITH PLANTING PLAN.
- AND ADJUSTMENTS MADE IN THE FIELD 4. IN CASE OF DISCREPANCY, CONTACT LANDSCAPE ARCHITECT IMMEDIATELY, BEFORE PROCEEDING WITH WORK.
- PRESSURE AT MAIN WATER SUPPLY TO BE VERIFIED BEFORE PROCEEDING. PRESSURE TEST NEW IRRIGATION MAIN FOR 24 HOURS BEFORE BACK FILL COVERING. A PRESSURE REGULATOR MAY BE NECESSARY FOR OPTIMUM SYSTEM PERFORMANCE.
- 6. VERIFY LOCATION OF EXISTING IRRIGATION SYSTEM IN THE FIELD.
- SLEEVE UNDER PAVING (CLASS 200 PVC MIN.)- 24" UNDER PAVING
- 8. INSTALL ALL IRRIGATION EQUIP AS PER MANUFACTURER'S INSTRUCTIONS. 9. USE GREEN OR BLACK PLASTIC (AMTEK, CARSON OR EQUAL) VALUE
- BOXES. ONE VALVE PER BOX.
- 10. PRESSURE REGULATING DEVICES SHALL BE INSTALLED WHERE NECESSARY TO ENSURE THAT THE DYNAMIC PRESSURE AT EACH EMISSION DEVICE IS WITHIN MANUFACTURER'S RECOMMENDED PRESSURE RANGE FOR OPTIMAL
- ALL IRRIGATION EMISSION DEVICES WILL MEET THE CRITERIA AS SET FORTH IN -MWELO SECTION 492.7(a)(I)(M) AND SHALL BE INSTALLED AND OPERATED ACCORDING TO MANUFACTURER'S INSTRUCTIONS/RECOMMENDATIONS.